



**COMBINED
SECTIONS L & M**

**Attachment 1
to
RFP F04701-02-R-0500**

14 FEB 2002

SECTIONS L & M
(Instructions to Offerors and Evaluation Criteria)

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L&M-501—COMBINED SECTIONS L AND M

This is a combined Sections L and M. The rationale for the combining is to provide a clear linkage between the required proposal information and the way the Government plans to evaluate the proposal. The section focuses on the key program objectives contained in the executive summary and the Statement of Objectives (SOO). The entire thrust of the proposal instructions and the evaluation criteria is to understand the offeror's approach to meet the program objectives, support the acquisition strategy, and mitigate the existing risks.

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L&M-502—SOURCE SELECTION OVERVIEW

(a) For the convenience of the offeror, a summary of the source selection is provided here. Since this information only summarizes information found elsewhere in this combined Sections L & M, it cannot be relied upon alone. The offeror must read and understand this provision within the context of the entire combined Sections L & M. The Government reserves the right to deviate from the summary provided here as the need arises.

(b) Schedule. The schedule is based on two interested parties, identified here as Offeror A and Offeror B.

- Common cut-off date for submission of paper and electronic proposals, except for the Past Performance Volume which is due two weeks previously (see L&M-560 et seq.).
- Evaluation of Offeror A's proposal (see L&M-510 et seq.).
- Offeror A's Program Risk Mitigation Oral Presentation and clarifications (see L&M-517).
- Completion of Offeror A's evaluation (see L&M-510 et seq.).
- Evaluation of Offeror B's proposal (see L&M-510 et seq.).
- Offeror B's Program Risk Mitigation Oral Presentation and clarifications (see L&M-517).
- Completion of Offeror B's evaluation (see L&M-510 et seq.).
- Offeror proposed discussion topics submitted.
- Initial Status Briefings to SSAC and SSA (including a chart such as Table 510-1).
- Release of ENs to offerors.
- Initial Status Brief to offerors (includes EN review) (using the same charts briefed to the SSAC and SSA).
- EN understanding meeting.
- EN responses submitted; with follow-ups where necessary.
- Government evaluation of the EN responses.
- Mid-Term Status Briefings to SSAC and SSA (including a chart such as Table 510-1).
- Pre-FPR Letter to Offerors
- Mid-Term Status Briefings to offerors (using the same charts briefed to the SSAC and SSA) and pre-FPR meetings.
- Final Proposal Revisions requested from both offerors.
- FPR oral presentations (see L&M-519).
- FPRs submitted and evaluated.
- Decision Briefings to SSAC and SSA (including a chart such as Table 510-1).
- Award Decision.
- Award Announcement.
- Debriefings (using the same charts briefed to the SSAC and SSA).

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(c) Proposal Submission. The offeror submittal requirements of this acquisition are summarized in L&M-560 et seq.

L&M-505—BASIS FOR CONTRACT AWARD

(a) The Government will conduct this competitive negotiated acquisition in accordance with FAR Subpart 15.3, Source Selection, and the Defense and Air Force supplements thereto (especially AFFARS Subpart 5315.3, updated by Air Force Acquisition Circular 96-3, 31 Mar 2000). A trade-off process, as described in FAR 15.101-1, will be used in making the source selection decision. This decision will reflect the Source Selection Authority (SSA)'s integrated assessment of the merits of the offeror's submittal. The offeror must recognize that the subjective judgment of Government evaluators is implicit in the evaluation process. The Government contemplates awarding one contract resulting from this solicitation, but reserves the right to make more or no awards. Obtaining best value is the Government's intention. The Government reserves the right to award to a higher-price offeror if this provides the best value.

(b) Price (or cost) will be a part of the SSA's integrated assessment and decision. All evaluation factors other than price, when combined, are significantly more important than price. The offeror is encouraged to exceed minimum technical, performance, reliability and other stipulated Government requirements wherever feasible, provided a balanced approach is considered with respect to program schedule, risk, cost, and the program prioritizations described in L&M-520.

(c) The four evaluation factors are discussed in summary in L&M-510—Evaluation Criteria and in particular in Provisions L&M-511—Mission Capability Factor Evaluation, L&M-512—Past Performance Factor Evaluation, L&M-513—Proposal Risk Factor Evaluation, and L&M-514—Cost Factor Evaluation. In addition to these, the SSA's integrated assessment and decision will include an evaluation of general considerations. These are—

(1) Adherence to Terms and Conditions (an evaluation of the offeror's proposed terms and conditions to ascertain business prudence and compliance with the terms and conditions intended within the solicitation);

(2) Overall soundness of the offeror's proposed approach;

(3) Mentor-Protégé Agreements; and

(4) Proposed incentives, commitments, and warranties offered by the offeror for the Government's benefit during the life of the contract.

(d) Proposal information provided for one factor may be used to assess other factors if the Government deems it appropriate. However, the Government is not required to use information provided for one factor to assess other factors, unless the offeror makes specific references from one volume or section to the next. The Government may use other Past Performance data that was not provided by the offeror in its evaluation. A deficiency in one area of a proposal may result in the entire proposal being found to be unacceptable. Past performance problems not addressed by the offeror will be considered to be still in existence.

(e) Performance thresholds and objectives are identified in the NPOESS Technical Requirements Document (TRD), except that the objective and threshold for NPP launch are JAN 2006 and MAY 2006, respectively (see L&M-540 and L&M-562-3.4.1(c) and -3.4.2(c)).

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L&M-510—EVALUATION CRITERIA

The Government will evaluate proposals, the Program Risk Mitigation Oral Presentation, and the Final Proposal Revision Oral Presentation against the factors and subfactors as depicted in Table 510-1. Factors 1, 2, and 3 are each more important than Factor 4; and when combined are significantly more important than Factor 4. However, cost will be a significant consideration in the selection decision (see FAR 15.304(e)).

Table 510-1—Evaluation Matrix							
			Mission Capability and Proposal Risk Subfactors				
			(subfactors equal in importance to each other)				
			1. System Performance	2. Segment Design	3. SEIT and Planning	4. Management and Organization	
Evaluation Factors	(most important factors and equal to each other)	1. Mission Capability	B	B	B	B	
			G	G	G	G	
			Y	Y	Y	Y	
			R	R	R	R	
		2. Past Performance	High Confidence Significant Confidence Confidence Little Confidence No Confidence Unknown Confidence				
			3. Proposal Risk	H M-H M L-M L	H M-H M L-M L	H M-H M L-M L	H M-H M L-M L
				4. Cost*	Proposed Cost:		Probable Cost:
	\$ _____ instant contract		\$ _____ instant contract				
	\$ _____ life-cycle cost		\$ _____ life-cycle cost				

* Proposed cost is the offeror's proposed instant contract and life-cycle cost to the Government and probable cost is the Government's assessment of likely costs. (See L&M-514(f) for definitions of instant contract cost and life-cvcle cost.)

L&M-511—MISSION CAPABILITY FACTOR EVALUATION

The Mission Capability evaluation provides the offeror an opportunity to describe its proposed best-value system and explain how the system's performance satisfies the requirements of the TRD and meets objectives of the SOO. The Mission Capability factor is divided into four Mission Capability subfactors (these are listed in Table 510-1 and described in L&M-562). The Mission Capability Factor is evaluated at the subfactor level.

L&M-562 provides both the specific instructions to the offeror regarding the Mission Capability subfactors and the evaluation criteria with which the subfactors will be evaluated. The rating definitions in Table 511-1 will be used to evaluate each of the Mission Capability subfactors. The subfactor ratings will not be rolled-up into an overall Mission Capability rating. For ease in categorizing evaluator comments, each Mission Capability subfactor is divided into parts in L&M-562—however, these parts are not assigned ratings and are not listed in any order of priority.

Table 511-1—Mission Capability Evaluation Ratings (assigned at the subfactor level)		
Color—	Rating—	Definition—
B	Exceptional	Exceeds specified minimum performance or capability requirements in a way beneficial to the Government.
G	Acceptable	Meets specified minimum performance or capability requirements necessary for acceptable contract performance.
Y	Marginal	Does not clearly meet some specified minimum performance or capability requirements necessary for acceptable contract performance, but any proposal inadequacies are correctable.
R	Unacceptable	Fails to meet specified minimum performance or capability requirements. Proposals with an unacceptable rating are not awardable.
Source: AFFARS 5315.305(a)(3)(i).		

L&M-512—PAST PERFORMANCE FACTOR EVALUATION

(a) The Government intends to conduct a Past Performance evaluation using information in Volume 3 of the offeror's proposal, along with any other past or present performance information available, including previous, relevant, past performance evaluations (i.e. PDRR source selections). Material defining performance since March 1997 (past 5 years) will be considered relevant. It is incumbent upon the offeror to explain the relevance of all data provided. Relevant past performance information will be obtained through CPARS; questionnaires tailored to the circumstances of this acquisition; Defense Contract Management Agency (DCMA) channels; and interviews with program managers and Contracting Officers, or other sources known to the Government, including commercial sources. In conducting the performance confidence assessment, the Government will use both data provided by the offeror and data obtained from other sources. This information may include data on efforts performed by other divisions, critical subcontractors, or teaming contractors, if such resources will be brought to bear or significantly influence the performance of the proposed effort. Offerors will be provided an opportunity to address any negative or adverse past performance information received by the PRAG during this evaluation (subject to the restrictions of FAR 15.306(e)(4)), which they have not had an opportunity to address in the past.

(b) The Performance Risk Assessment Group (PRAG) will evaluate relevant current and past performance to assess confidence in the ability of the offeror's team to meet the requirements of this solicitation. The PRAG will assess the demonstrated record of performance of each offeror's team in relevant management, cost, and technical experience with the life-cycle development of similar systems, including, but not limited to, space-based remote sensing systems, distributed ground and communications architectures, large software development contracts, multi-satellite constellations, taskable satellite systems, on-orbit operations, and producibility/production experience of the offeror and the offeror's participating divisions and proposed subcontractors. Experience of the offeror as a subcontractor on similar efforts, commercial work, and independent research and development (IRAD) may also be considered relevant. The Government will consider the team's demonstrated record of contract compliance, including cost and schedule, in supplying products and services that meet users' needs. The Government will also be factoring problem solving, implementation methods, and success rates into the offeror's overall past performance assessment. The performance risk assessment will be focused on the mission capability subfactors and cost control. Based on these subfactor evaluations, an overall performance risk rating encompassing the offeror's proposal as a whole will be assigned as shown in Table 512-1.

(c) Contracts involving tasks and products that most closely resemble the work that the contractor/subcontractor will accomplish on NPOESS EMD/Production will have the most relevancy. More recent and relevant performance will have a greater impact on the Performance Confidence Assessment than less recent or relevant effort. Likewise, a more relevant past performance record may receive a higher confidence rating and be considered more favorably than a less relevant record of good performance.

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Table 512-1—Past Performance Evaluation Ratings (assigned at the factor level)	
Rating—	Definition—
HIGH CONFIDENCE:	(Exceptional) Based on the offeror's performance record, essentially no doubt exists that the offeror will successfully perform the required effort.
SIGNIFICANT CONFIDENCE	(Very Good) Based on the offeror's performance record, little doubt exists that the offeror will successfully perform the required effort.
CONFIDENCE	(Satisfactory) Based on the offeror's performance record, some doubt exists that the offeror will successfully perform the required effort.
LITTLE CONFIDENCE	(Marginal) Based on the offeror's performance record, substantial doubt exists that the offeror will successfully perform the required effort. Changes to the offeror's existing process may be necessary in order to achieve contract requirements.
NO CONFIDENCE	(Unsatisfactory) Based on the offeror's performance record, extreme doubt exists that the offeror will successfully perform the required effort.
UNKNOWN CONFIDENCE	No performance record identifiable (see FAR 15.305(a)(2)(iii) and (iv)).
Source: AFFARS 5315.305 (a)(2)(S-92)	

(d) Relevancy is a threshold question when considering past performance, not a separate element of past performance. A "1" to "5" relevancy rating will be used. A contract rated "3" or higher will be considered relevant for this solicitation. Irrelevant past performance will not be evaluated. Table 512-2 will be used as a guide for determining relevancy.

Table 512-2—Relevancy Ratings						
MC Subfactor	Relevancy Ratings					
System Performance	None	Low = 1	Med Low = 2	Medium = 3	Med High = 4	High = 5
Segment Design						
SEIT & Planning						
Management & Organization						
Cost						
Irrelevant			Relevant			
NOTE: A rating of 4 or 2 is possible. A 4 rating shall be given when past performance data exceeds the criteria of a 3 but does not fully meet the criteria of a 5. A 2 rating shall be given when past performance data exceeds the criteria of a 1 but does not fully meet the criteria of a 3.						
NOTE: The Government will regard as relevant only information pertaining to contracts currently in development or production, completed, or awarded since March 1997.						

(e) The criteria detailed in Table 512-3 will be used to establish a relevancy for each submitted contract. Note: the NPOESS PDRR contracts are automatically considered relevant and must be included.

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Table 512-3 Relevancy Criteria				
Mission Capability				
System Performance				
	High = 5	Medium = 3	Low = 1	None = 0
Relevancy Rating Equally relevant to hardware and software contracts	Since March 1997: Was in an EMD phase (higher relevance since this is the kind of contract we're looking for) - AND – Includes both space and ground elements - AND – Includes total system performance responsibilities (end-to-end system performance, not just system design but includes performance attributes/parameters such as timing, quality, &c.))	Since March 1997: Was in a Concept Definition phase (if in EMD phase this could make this a relevancy of 4) - AND – Includes a space element - OR – Includes a ground element - AND – Includes total system performance responsibilities	Since March 1997: Was in a pre-Concept Definition - OR –(an AND here could make this a relevancy of 2) Includes a space or ground element - OR –(an AND could make this a relevancy of 2) Includes total system performance responsibilities	Since March 1997: Was not involved in any Government acquisition process - AND – Does not include a space or ground element - AND – Does not include total system performance responsibilities
Segment Design				
	High = 5	Medium = 3	Low = 1	None = 0
Relevancy Rating Note: If system is not operational, decrease relevancy by one point	Since March 1997: Directly involved with the construction and/or operation of a new space-based remote sensing data collection system. - AND - Directly involved with the integration and/or operation of multiple independent <u>sensors</u> in a single space platform. - AND - Directly involved with the <u>development</u> and/or operation of a new ground	Since March 1997: Directly involved with the construction and/or operation of a new space-based remote sensing data collection system. - OR – (an AND here could make this a relevancy of 4) Directly involved the integration of multiple independent <u>components</u> into a single space system - OR - Directly involved with the <u>integration</u>	Since March 1997: Involved only sensors or components of a system - OR – (an AND here could make this a relevancy of 2) Involved integration of a single component into one system - OR – (an AND here could make this a relevancy of 2) Involved with only sending data to ground systems	Since March 1997: Was not involved with any system - AND – Not involved with any integration of a space system - AND – Not involved with a ground comm. or architecture.

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	environmental data processing system -OR- Directly involved with the <u>integration</u> of environmental data into existing ground systems	of environmental data into existing ground systems		
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Table 512-3 Relevancy Criteria Tables (cont'd)

System Engineering, Integration, and Test (SEIT) & Planning				
	High = 5	Medium = 3	Low = 1	None = 0
	<p>Since March 1997: Directly involved with testing AND calibrating a spaceborne environmental (i.e. meteorological) data collection & processing system AND directly involved with developing and maintaining plans.</p> <p>-AND-</p> <p>Directly involved with multiple satellite/sensor AND comm. interfaces (satellite/ground/ user)</p> <p>-AND-</p> <p>Involved with environmental (i.e. meteorological) data processing</p>	<p>Since March 1997: Directly involved with testing AND calibrating a spaceborne data collection & processing system AND directly involved with developing and maintaining plans.</p> <p>- OR –</p> <p>(an AND here could make this a relevancy of 4)</p> <p>Directly involved with multiple satellite/sensor AND comm. interfaces (satellite/ground/ user)</p> <p>- OR –</p> <p>(an AND here could make this a relevancy of 4)</p> <p>Involved with data processing</p>	<p>Since March 1997: Involved with testing AND calibrating a spaceborne data collection & processing system OR had plans developed and maintained by an external agency.</p> <p>- OR –</p> <p>(an AND here could make this a relevancy of 2)</p> <p>Involved any data interfacing effort</p> <p>- OR –</p> <p>(an AND here could make this a relevancy of 2)</p> <p>Involved any data effort</p>	<p>Since March 1997: Was not involved with any spaceborne data collection & processing system OR no plans were involved.</p> <p>- AND –</p> <p>Not involved with complex satellite/sensor interfaces AND complex comm. interfaces (satellite/ground/ user)</p> <p>- AND –</p> <p>Not involved with any data effort</p>
Management and Organization				
	High = 5	Medium = 3	Low = 1	None = 0
<p>Relevancy Rating</p> <p>Equally relevant to hardware and software contracts</p>	<p>Since March 1997: Obtained corporate /sector resources from multiple geographically separated sources</p> <p>-OR-</p> <p>Major subcontractor span of control exceeded 5 companies</p>	<p>Since March 1997: Major subcontractor span of control exceeded 3 companies</p>	<p>Since March 1997: Major subcontractor span of control was ≤ 3 companies</p>	<p>Since March 1997: Did not involve major subcontractor support</p>

Table 512-3 Relevancy Criteria Tables (cont'd)

Cost				
	High = 5	Medium = 3	Low = 1	None = 0
<p>Equally relevant to hardware and software contracts</p>	<p>> \$200M</p> <p>-AND-</p> <p>> 5 year effort duration</p>	<p>\$100M - \$200M</p> <p>- AND –</p> <p>> 3 year effort duration</p>	<p>< \$100M</p> <p>- OR -</p> <p>< 3 year effort duration</p>	<p>No contracts experience.</p>

L&M-513—PROPOSAL RISK FACTOR EVALUATION

(a) The Proposal Risk assessment focuses on the risks and weaknesses associated with an offeror's proposed approach. Assessment of risk is done at the Mission Capability subfactor level, and includes potential for disruption of schedule, increased cost, degradation of performance, and the need for increased Government oversight as well as the likelihood of unsuccessful contract performance. The subfactor evaluations are not rolled-up into an overall Proposal Risk rating but are presented at the subfactor level.

(b) There is no separate proposal volume for the Proposal Risk Factor. Information from the IMP, other proposal volumes, and the Program Risk Mitigation Oral Presentation will be used to rate proposal risk. The proposal risk ratings will reflect the Government's assessment of the risk associated with each offeror's approach, using the rating definitions in Table 513-1 (Proposal Risk Evaluation Ratings).

Table 513-1—Proposal Risk Evaluation Ratings (assigned at the Mission Capability subfactor level)	
Rating—	Definition—
H	High. Likely to cause significant disruption of schedule, increased cost or degradation of performance. Risk may be unacceptable even with special contractor emphasis and close Government monitoring.
M-H	Moderate-High. In between Moderate and High.
M	Moderate. Can potentially cause some disruption of schedule, increase in cost, or degradation of performance. However, special contractor emphasis and close Government monitoring will probably be able to overcome difficulties.
L-M	Low-Moderate. In between Low and Moderate.
L	Low. Has little potential to cause disruption of schedule, increase in cost, or degradation of performance. Normal contractor effort and normal Government monitoring will probably be able to overcome difficulties.
Source: AFFARS 5315.505(a)(3)(ii) for H, M, and L ratings. M-H and L-M ratings will be used when the Government's evaluation does not provide an unambiguous H, M, or L rating.	

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L&M-514—COST FACTOR EVALUATION

Cost will be evaluated for realism and reasonableness. Each element of cost shall have a program risk assessment that will be dollarized to develop a Probable Cost (PC) estimate. The Government will use the PC to evaluate contract cost.

These instructions are provided to assist the offeror in developing and presenting information required to support the Cost Proposal. Compliance with these instructions is mandatory and failure to comply may result in the proposal being determined to be non-responsive to the solicitation.

(a) Cost Information Requirements. In accordance with FAR 15.403-1(b) and 15.403-3(a), information other than cost or pricing data is required to support the Government's evaluation of price reasonableness and cost realism. Information required shall be provided in accordance with the tailored formats specified hereunder. However, use of offeror formats is encouraged providing that all the required information is made available. This information is not considered cost or pricing data and thus certification is not required in accordance with FAR 15.406-2. If, after receipt of proposals, the contracting officer determines that there is insufficient information available to determine price reasonableness and none of the exceptions at FAR Subpart 15.403-1 apply, the offeror will be required to submit cost or pricing data.

(b) Required Data. All information relating to the proposed cost or pricing data, including all required supporting documentation, must be included in the section of the proposal designated as the Cost Proposal volume. Cost-related information such as cost trade-off information, work hour estimates, and material kinds and quantities may be used in other volumes only to the limited extent necessary.

(c) Estimating Techniques and Methods. The offeror and its subcontractors may submit cost estimates using appropriately validated parametric models that are part of its disclosed cost estimating systems. These cost estimates shall include contemporary estimating methods such as cost-to-cost and cost-to-non-cost estimating relationships (CERs); commercially available parametric cost models; and in-house developed parametric cost models. If necessary, reasonable and supportable allocation techniques may be used to spread hours and/or cost to lower levels of the Work Breakdown Structure (WBS). The offeror's use or non-use of parametric estimating techniques for this proposal will not be a factor (positive or negative) in the evaluation of the offeror's response to this solicitation. Cost estimates submitted using such parametric models shall produce cost estimates that are reasonable and consistent and as such create a basis for negotiation of price.

(d) Offeror Cost Model and Cost Proposal. The offeror may reference its life-cycle cost estimate model submitted in its Cost Volume as a response to other requirements listed in this RFP. However, the information requested below must be contained in the contractor LCCE model. In addition, if the information is not identified in the same format, the offeror shall provide a detailed explanation as to where the information will be found.

(e) Instructions. The offeror shall provide the Cost/Price Volume in four sections described in L&M-564.

(f) Cost Evaluation Criteria. The evaluation of instant contract cost and Life-cycle cost will include an assessment of realism and reasonableness as defined below. Any supplemental cost proposals submitted in accordance with this Section will also be assessed for realism and

reasonableness. For the purpose of this source selection, both instant contract costs and life-cycle costs include the EMD CLINs (0xxx) and the Production CLINs (1xxx). The sustaining engineering O&S CLINs (22xx) and included in the instant contract costs, and the O&S CLINs (21xx) are included in the life-cycle costs. Both instant contract costs and life-cycle costs will include 25,000 special study hours per year in years 2003-2009 (see H-541). Including option prices and special studies hours here is for evaluation purposes only, and in no way indicates an intent to exercise an option or a guarantee of special study hours.

(1) Realism.

(A) To ensure that the offeror's proposed costs are consistent with its technical proposal and reflect a clear understanding of the program requirements, the Government will perform a Cost Realism Analysis (CRA) in accordance with FAR 15.404-1(d)(2). This is an assessment of the compatibility of the proposed cost with the proposal scope and efforts, the list of estimating ground rules and assumptions, and the schedule duration. In addition, the LCC estimate, relative to the CAIV objectives, shall be evaluated consistent with the Consolidated NPOESS EDR Prioritization List at Table 520-2.

(B) As part of the CRA, the Government will develop a Probable Cost (PC) for each offeror's cost proposal in accordance with FAR 15.404-1(d)(2)(ii). The offeror's cost/price proposal will be evaluated by using the PC. The offeror's proposed estimated costs for the basic effort and proposed target price, ceiling price, and share ratio for the optional effort shall not be controlling for source selection purposes. PC shall be determined and measured as the Government estimate of anticipated performance.

(C) The PC will include any additional costs deemed necessary for performance under the contract such as, but not limited to award fee, target profit, Government-Furnished Property (GFP), Government facilities, and may include risk mitigation costs applicable to any proposal risk subfactor rated other than "low". In addition, the PC will include the Government's estimate of any cost impacts resulting from demands imposed by the sensor on spacecraft performance, for example, resulting from sensor-unique accommodation issues.

(D) The burden of proof regarding cost credibility rests with the offeror. Proposal risk will be increased in any offer determined unrealistically low compared to the anticipated costs of performance and without reasonable and complete explanation. In this case, the Government will assume the offeror does not have an understanding of the technical requirements of the corresponding mission capability subfactor(s). Evaluators may factor this assumption into the PC determination.

(2) Reasonableness.

(A) Reasonableness of an offeror's proposal will be evaluated using one or more price analysis techniques described in FAR Subpart 15.404-1(b). If the Contracting Officer determines that Adequate Price Competition (APC) has not been obtained, reasonableness will be evaluated using cost analysis techniques described in FAR Subpart 15.404-1(c).

(B) Compliance with Near Term Funding Profile. The offeror's proposed cost will be evaluated to ensure that it substantially complies cumulatively with the near term funding profile provided in L&M-564. Any exceptions shall be adequately justified.

(C) Reconciliation of LCCE. The LCCE shall be evaluated to ensure that all differences

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between the cost proposal and the LCCE are reconcilable and substantiated and that appropriation types required and timing are consistent with DoD and DOC funding policy. If an alternate non-standard funding policy is also proposed, then the explanation of the non-standard funding approach and other exceptions to funding policy must be fully substantiated and defensible. The offer shall not be contingent on acceptance of the alternate funding approach.

L&M-517—PROGRAM RISK MITIGATION ORAL PRESENTATION

(a) Each offeror shall substantiate its designs, and technical and management approaches during a Program Risk Mitigation Oral Presentation that may not exceed ten working days. This presentation may include material required to be delivered during the NPOESS Program Definition and Risk Reduction (PDRR) Preliminary Design Review (PDR) and Ground Demonstration Four plus additional system engineering and integration, program plan, management and organization and cost information needed to support the offeror's proposal in its Mission Capability, Past Performance, and Cost volumes. The technical portion of the oral presentation should follow the sequence of the Mission Capability subfactors outlined in L&M-562, unless simultaneous sessions are held.

(b) The offeror is responsible for planning and scheduling the combined Program Risk Mitigation Oral Presentation at its own facility. Where the offeror contemplates simultaneous technical, cost, or past performance sessions, it will obtain the concurrence of the contracting officer. The offeror may request and obtain this concurrence before submitting its proposal. The workday shall not exceed 9 hours for each day, inclusive of lunch and breaks. The offeror shall provide the Government a half-hour caucus at least four times a day (note: the offeror may participate in the last caucus of each day to provide written answers to clarification ENs). The briefing charts used during the Program Risk Mitigation Oral Presentation shall be the same charts submitted as Volume 5 of the proposal and shall not be updated prior to presenting the information.

(c) The purpose of the oral presentation is to allow for clarification and substantiation of the assertions made in the offeror's proposal. The offeror is cautioned that this is not a forum for negotiations, bargaining, or changing or adding to the offeror's proposal; accordingly, the offeror's proposal as contained in its Mission Capability, Past Performance, and Cost Volumes should be as complete as practicable. The Government will evaluate the Program Risk Mitigation Oral Presentation only to substantiate and reinforce its Mission Capability, Past Performance, Proposal Risk, and Cost evaluations. The Program Risk Mitigation Oral Presentation will be evaluated for overall substantiation of the proposal and the risk mitigation plans that the offeror plans to implement. This includes the data that substantiates the progress-to-date and the offeror's approach to continue progress and mitigation efforts.

(d) Clarification questions will be provided to the offeror no later than the afternoon of Friday before the oral presentation, and the offeror may address these clarifications orally during the course of its oral presentation and by paper response before the close of the oral presentation.

(e) The requirements for the Program Risk Mitigation Oral Presentation Volume of the proposal are found at L&M-565.

(f) The Government's use of the PDR as an oral presentation in the source selection does not in any way relieve the offeror of its contractual duties under its PDRR contract.

(g) A recent USD/AT&L review drew attention to software difficulties being faced by other programs. To help NPOESS avoid these same difficulties, the Government desires a single, integrated session (not to exceed six hours) at the Program Risk Mitigation Oral Presentation on how the offeror's software program specifically addresses and mitigates problems of the sort described below. The information presented in this session must be included in the offeror's proposal and may be evaluated wherever it fits under the evaluation criteria in L&M-562. Notwithstanding this consolidated session, the offeror may still address software matters elsewhere during its oral presentation. The observed problems were:

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- Requirements analysis and decomposition was not complete
- Rigorous/disciplined development and test approach was not followed
- S/W engineering culture was weak
- S/W processes were not adhered to
- Metrics were insufficient to assess S/W Quality
- Schedules did not account for complexity of S/W
- Schedules did not account for limitations/ H/W resources
- Inadequate development infrastructure
- Productivity assumptions were too aggressive
- Weak relationship with operators – they didn't understand what the contractor was delivering

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(h) In addition to the slides prepared and submitted with its proposal according to L&M-565, the offeror may also project or display extracts from its proposal, previously-submitted data, or PDR data prepared and submitted according to L&M-530.

(i) The rules of engagement for the oral presentation are found at L&M Annex C.

(j) Where the offeror intends to provide demonstrations (including hands-on applications, computer simulations, or other modes of presentation other than charts) or exhibits at the oral presentation, the offeror must satisfy the contracting officer that their development was arrested on the common cut-off date for submittal of proposals. Absent this satisfaction, the offeror will not be permitted to present these demonstrations or exhibits at the oral presentation. The purpose of this restriction is a matter of fairness. Arresting the development means no further database additions, adjustment of variables, software improvements, refinement of animations, changes to exhibit materials, and so forth.

L&M-519—FINAL PROPOSAL REVISION ORAL PRESENTATION

- (a) The offeror will be invited to give an oral presentation before its final proposal revision is submitted. The purpose of the oral presentation is to allow the offeror to summarize its final proposal revision and, if needed, to allow the Government to obtain any clarifications needed to fully understand its proposal. The oral presentation will be at the Government's facilities in Silver Spring, Maryland. The offeror is responsible for videotaping the oral presentation and providing a videotape of the oral presentation to the Government immediately upon its conclusion.
- (b) The Government will notify the offeror of the date and time for its oral presentation at least one week beforehand, and will provide the offeror access to the presentation room two hours before the oral presentation is scheduled to begin.
- (c) The oral presentation consists of two parts. The offeror will be allowed two hours for its presentation. The FPR presentation shall focus on the deltas to the previously submitted proposal. After the offeror's presentation the Government will caucus to develop questions. The questions will then be provided to the offeror. The offeror will then be required to provide oral responses to the questions on a following day in a session that may not exceed two hours.

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L&M-520—NPOESS SYSTEM PRIORITIZATIONS

(a) The most critical NPOESS requirements or Key Performance Parameters (KPPs) (Category IA EDRs, Data Access, & Interoperability) are considered minimum, measurable capabilities or characteristics required to satisfy the users' needs, and offers not meeting thresholds in these areas are deficient (see AFFARS 5315.301-90(o)).

(b) For non-KPP performance thresholds, the offeror is provided limited flexibility to propose solutions that may not meet threshold requirements as defined in AFFARS 5315.301-90(o). For this purpose, the use of the terms "threshold performance requirement", "threshold requirement", or "threshold" in this solicitation and the associated source selection process, including proposal evaluations, does not follow the definitions in AFFARS 5315.301-90(o). The evaluation requirements, criteria, and process for this evaluation have been structured to provide the offeror with flexibility and trade space in its proposed solutions with respect to technical/design trades and Cost-As-an-Independent-Variable (CAIV) considerations and other program prioritizations as described in this provision. The burden is on the offeror to provide convincing rationale for the Government's acceptance of such solutions when an offeror's trades result in performance below threshold.

Table 520-1—NPOESS Integrated Requirements Priority List (IRPL)	
Ranking	Requirements
1	Category 1A EDRs*, Data Access, Interoperability
2	Data Availability, and System Ao
3	Category IIA EDRs*
4	Category IIB EDRs*
5	Cost Target (see Table 654-4)
6	ILS (Includes OPS); Flexibility, Expansion, and Robustness (Includes new instruments, new/upgraded algorithms, rapid prototyping, loss of a node, replenishment, field terminal S/W approach, etc.)
7	Category IIIB EDRs*
8	Survivability [TRD App B]
9	P3I EDRs*
*EDR includes all attributes (including latency) and associated RDRs	

(c) Performance parameters stated as objectives follow the definition in AFFARS 5315-301-90(b) and represent the capability or characteristic desired by the user which the program manager would like to obtain. An "objective performance requirement", "objective requirement", or "objective" is a measurable, desirable capability or characteristic above the threshold and which represents an operationally meaningful increment above the threshold performance requirement.

(d) For the purpose of providing insight to the offeror as it crafts its best-value solution, NPOESS EDRs, including all attributes, have been divided into two types of categories: Threshold Categories (I, II, and III) and Objective Categories (A and B) as listed in Table 520-2—Consolidated NPOESS EDR Prioritization List. Categories I, II, and III determine ranking of threshold requirements. Categories A and B determine relative importance of exceeding thresholds or approaching objectives. EDR characteristics include all attributes (including latency) and associated RDRs. These categories are—

Category I-A. Trades addressing performance below TRD Threshold levels are not of interest. There is substantial value to the Government if thresholds are exceeded and objectives

are approached.

Category II-A. Achievement of TRD threshold levels is expected, but an offer with trades addressing performance below TRD threshold levels may be acceptable only where the thresholds are significant design or cost drivers and below-threshold performance will provide significant benefit to the Government in the offeror's overall best-value solution (e.g., reduced cost, improved performance in other EDRs, improved spacecraft accommodation, etc.). There is value to the Government if thresholds are exceeded and objectives are approached.

Category II-B. Same as Category IIA, except that there is lesser value to the Government if thresholds are exceeded.

Category III-B. TRD threshold level performance is expected but satisfaction of these EDRs should not significantly drive system design or cost. An offer with trades addressing performance below TRD threshold levels may be acceptable. There is little value to the Government if thresholds are exceeded.

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Table 520-2—Consolidated NPOESS EDR Prioritization List

Baseline NPOESS EDRs (55) derived from IORD II, as modified and reflected in latest version of the NPOESS TRD, Appendix D assignments are “notional” Government allocations. [p] = primary contributor; [aw] = all weather.

EDR	Cat.	Sensor	EDR	Cat.	Sensor	EDR		
Atmospheric Vertical Moisture Profile (KPP)	I-A	CrIS/ATMS[p]/CMIS[aw]	Ocean Wave Characteristics/Significant Wave Height	II-A	Altimeter	Land Surface Temperature		
Atmospheric Vertical Temperature Profile (KPP)	I-A	CrIS/ATMS[p]	Ozone (Total Column)	II-A	OMPS	Medium Energy Charged Particles		
Global Sea Surface Winds (Speed) (KPP)	I-A	CMIS	Ozone (Vertical Profile)	II-A	OMPS	Net Solar Radiation		
Imagery (KPP)	I-A	VIIRS[p]	Precipitable Water/Integrated Water Vapor	II-A	CMIS	Neutral Density Profile		
Sea Surface Temperature (KPP)	I-A	VIIRS	Precipitation (Type/Rate)	II-A	CMIS	Outgoing Long-wave Radiation (TOA)		
Soil Moisture (KPP)	I-A	CMIS	Sea Ice Characterization	II-A	VIIRS[p]	Precipitable Water/-Integrated Water Vapor		
Aerosol Optical Thickness	II-A	VIIRS	Sea Surface Height/Topography	II-A	Altimeter	Sea Ice Characterization		
Aerosol Particle Size	II-A	VIIRS	Sea Surface Temperature	II-A	CMIS[aw]	Solar Irradiance		
Albedo (surface)	II-A	VIIRS	Snow Cover/Depth	II-A	VIIRS[p]	Supra-thermal to Auroral Energy Particles		
Atmospheric Vertical Temperature Profile	II-A	CMIS[aw]	Surface Type	II-A	VIIRS	Auroral Imagery		
Auroral Boundary	II-A	SESS	Active Fires (Application of Surface Type)	II-B	VIIRS	Cloud Base Height		
Cloud Cover/Layers	II-A	VIIRS	Suspended Matter	II-A	VIIRS	Global Sea Surface Stress		
Cloud Effective Particle Size	II-A	VIIRS	Total Water Content	II-A	CMIS	Imagery		
Cloud Ice Water Path	II-A	CMIS	Vegetation Index	II-A	VIIRS	In-situ Plasma Fluctuations		
Cloud Liquid Water	II-A	CMIS	Aerosol Optical Thickness	II-B	APS	In-situ Plasma Temperature		
Cloud Optical Thickness	II-A	VIIRS	Aerosol Particle Size	II-B	APS	Ionospheric Scintillation		
Cloud Top Height	II-A	VIIRS	Aerosol Refractive Index, SSA, and Shape	II-B	APS (aerosol)	Net Heat Flux		
Cloud Top Pressure	II-A	VIIRS	Auroral Energy Deposition	II-B	SESS	Pressure (Surface/Pressure)		
Cloud Top Temperature	II-A	VIIRS	Cloud Particle Size Distribution	II-B	APS (aerosol)	Snow Cover/Depth		
Electric Field	II-A	SESS	Downward Long-wave Radiation (surface)	II-B	ERBS	Soil Moisture		
Electron Density Profile	II-A	SESS/-GPSOS[p]	Downward Short-wave Radiation (surface)	II-B	ERBS	Surface Type		
Geomagnetic Field	II-A	SESS	Energetic Ions	II-B	SESS			
Global Sea Surface Winds (Direction)	II-A	CMIS	Ice Surface Temperature	II-B	CMIS[aw]			
Ice Surface Temperature	II-A	VIIRS						
Land Surface Temperature	II-A	VIIRS						
Ocean Color	II-A	VIIRS						

L&M-522—GENERAL INSTRUCTIONS

(a) General Guidance. The paragraphs below contain the instructions for preparing and submitting a proposal in response to the NPOESS Engineering and Manufacturing Development and Production phase Request For Proposal (RFP). The offeror shall provide a single proposal that is fully integrated across all functional areas and is responsive to the NPOESS SOO, the TRD, this Section and all other aspects of the solicitation. Requested information may be satisfied by a range of substantiating data from design philosophy, analysis, laboratory and other data. However, any information submitted shall have a clear explanation as to where it came from and how it was derived. The offeror's proposal must contain all the pertinent information in sufficient detail to permit evaluation of the proposed program.

(b) Content. The offeror's proposal must clearly demonstrate that the offeror: has a thorough understanding of the solicitation and associated risks; has valid and practical solutions for all requirements; and has processes or can obtain access to required resources to fulfill all the requirements. Unsubstantiated statements that the offeror understands, or can or will comply with the requirements, and statements that only paraphrase the requirements or parts thereof are inadequate. The offeror is advised that the quality of information is more important than the quantity. Clarity, brevity, and logical organization should be emphasized during the proposal preparation. The offeror must include any data necessary to substantiate his system performance baseline and illustrate the adequacy of the various assumptions, design approaches, and solutions to problems. There is no need to repeat information in more than one section if an overlap exists; the detailed information should be included in the most logical place and summarized or referenced in the other areas. Unnecessarily elaborate proposals are neither necessary nor desired. The offeror shall submit an offer and other written proposal information in accordance with instructions within this Section.

(c) Contractor Investment. Consistent with the USD/AT&L memo "Contractor Cost Sharing" dated May 16 2001 and SAF/AQ memo "Contractor Cost Sharing" dated Jul _ 2001, the Government will not accept any proposal which includes use of contractor independent research and development (IR&D) funds to subsidize defense contract research and development. Offeror-proposed investments of the sort described in these letters will be excluded from consideration during the source selection process.

(d) Alternate Proposals. Alternate proposals are not permitted in response to the solicitation.

(e) Classified Proposals. The Government anticipates that proposals will include classified information. The PCO's approval is required prior to the offeror's submission of classified information, and such approval should be obtained well before proposals are due. The request shall specifically identify the factors and subfactors which the classified information will influence and the clearance levels so that the Government can arrange for properly cleared persons to evaluate the materials. The classified portions of the affected proposal volumes shall be submitted under a separate cover (hardcopy only) in accordance with DoD 5220.22-M, National Industrial Security Program Operating Manual (NISPOM) and PCO instructions. Classified pages shall count against the total page limitation (if any) for the affected volume.

(f) World Wide Web Access. The RFP documents and any amendments thereto and general program information is available through the NPOESS Electronic Library at the following World Wide Web address: <http://npoesslib.ipc.noaa.gov/EMD.htm>

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(g) Reference Library. A reference library is available to the offeror at the NPOESS Integrated Program Office, Suite 1450, 8455 Colesville Rd., Silver Spring, MD, 20910. The library point of contact is Ms. Jane Jacob, (301) 415-0400, ext 120 and is available Monday through Friday, 0900 to 1600 EST, except federal holidays. A list of library contents and many of the listed documents also are available through the NPOESS Electronic Library at the following Internet address: <http://npoesslib.ipo.noaa.gov>

L&M-525—PROPOSAL FORMAT FOR PAPER SUBMISSIONS

(a) **Proposal Organization and Page Limits.** The offeror shall submit its proposal in hard copy and electronic format delivered on CD-ROM. Cover pages, table of contents, listing of figures, indices, and cross-reference matrices may be used and will not be included in the page count. Annexes, appendices, and attachments to the proposal will be included in the page count unless the RFP specifically excludes them elsewhere. Any pages in excess of the limit will be deleted from the end of the proposal and will not be read or evaluated. A transmittal letter may be used to forward the proposals to the Contracting Officer and will not count against the page count. The letter will not be read by the evaluators or the Source Selection Authority (SSA). Unless otherwise specified, the offeror may use presentation forms such as narrative, graphics, photographs, pictures, tables, graphs, and block diagrams to provide a concise description of the information to be conveyed. Footnotes to the text are allowed and may be used in the tables and figures.

(b) **Quantities/Numbering of Copies.** The offeror shall provide an original and additional paper copies (each identified by Copy Number) of the volumes of its proposal according to L&M-560. Submissions need not be in color. Copy Number 1 of the paper copies shall contain all required original signatures (the cover page of the offer, the proposed model contract, and Representations and Certifications (Section K)). Any extra paper copies of proposals submitted will be destroyed.

(c) **Transmittal Letter.** Include a hard copy transmittal letter with the proposal. The letter shall include a statement that the proposal will remain valid for no less than 120 calendar days from the date the proposal is due. This letter is not to exceed two pages; it will be used administratively and will not be evaluated. The transmittal letter shall also affirm the electronic media by which the offer is transmitted to the Government does not contain a "virus", a self-replicating program that has the ability to destroy data or deny services, and that the media has been checked and cleaned in its entirety with anti-virus software. The offeror shall reference the anti-virus program name and version number.

(d) **Submission of Hard Copy Proposals.** This section provides general guidance for preparing hard copy proposals as well as specific instructions on the format and content of the proposal. Non-conformance with these instructions may result in an unfavorable proposal evaluation.

(e) **Binding and Labeling.** Each volume of the paper copy proposal should be separately bound in a three-ring loose leaf binder that shall permit the volume to lie flat when open. Volume II, Mission Capability Factor, shall have each subfactor presented within a separate binder. Staples shall not be used. A cover sheet should be bound in each book, clearly marked as to volume number, title, copy number, RFP identification and the offeror's name. The same identifying data shall be placed on the spine of each binder. Tab indexing shall be used to identify sections. All unclassified document binders shall have a color other than red. Be sure to identify appropriate markings such as the legend at FAR provision 52.215-1(e), Restriction on Disclosure and Use of Data.

(f) **Page Format Restrictions and Limitations.** Page size for all proposal volumes shall be 8.5 x 11 inches, not including foldouts. Except for the reproduced sections of the solicitation document, text font shall be Times New Roman or equivalent, 12 point vertical character height, black (except hypertext links), and single spaced. Kern modification or other techniques to reduce character size or spacing are prohibited. All text within illustrations and tables shall be

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Arial, legible, and at least 8 point in height. Figure titles shall be at least 10 points in height. These restrictions do not apply to forms provided by the Government in this RFP to be included in the NPOESS contract (Standard Form 33, DD Form 254, DD Form 1423-1 and DD Form 1664). Viewgraphs provided in the Executive Summary, Oral Presentation, will be landscape orientation, with ½ inch margins (useable 10 x 7.5 inches) minimum font of 12 point.. No pen and ink changes are allowed. The page count limitation is based on the 8.5 x 11 inch paper copy with .75 inch margins on all sides. All information except for documentation number, classification markings, and page numbers must be contained within the margins. Pages shall be numbered sequentially and consecutively (i.e., 1-1, 1-2, IV-1, IV-2).

(g) **Foldouts.** Legible tables, charts, graphs and figures shall be used wherever practical to depict organizations, systems and layout, implementation schedules, plans, etc. These displays shall be uncomplicated, legible and shall not exceed 11 x 17 inches in size. Foldout pages shall fold entirely within the volume and count as two pages toward the page limitations. Foldout pages may only be used for large tables, charts, graphs, diagrams and schematics, not for pages of text. All information (except for document numbers, classification markings, and page numbers) must be contained within an image area of 9 ½ x 15 ½ inches.

(h) **Cross Referencing.** The offeror shall not submit paper copies of reference documents previously submitted to the Government. The offeror shall provide a list of all cross-referenced material. The offeror is also advised that the Government will assume that any information required by this solicitation that is not submitted in its designated proposal volume has been omitted from the proposal deliberately.

(i) **Cross Reference Matrix.** The offeror shall complete a Cross Reference Matrix in accordance with L&M-533, and shall include the Cross Reference Matrix as a separate file.

L&M-527—ELECTRONIC SUBMISSION OF PROPOSAL

(a) **General.** Proposals will be read and evaluated electronically. To enable the Government to successfully view the proposals electronically, the offeror shall submit electronic files compatible with Adobe Portable Document Format (PDF) Reader 5.0, Microsoft Office 2000, Professional Suite (Word 2000; Excel 2000; PowerPoint 2000; Access 2000), or Internet Explorer 5.0. Adobe Acrobat Reader will be used to view PDF files. The offeror shall generate “thumbnails” within each PDF file. The offeror is encouraged to generate “bookmarks” with each PDF file as well. The offeror shall provide hypertext links in a table of contents linked to each file provided in the proposal. Use of hypertext links within the proposal is permitted. There shall be no links from any other volume into the cost volume. The Integrated Master Schedule and other network schedules shall be developed using software compatible with Microsoft Project 98. The proposal shall be formatted using the HP LaserJet 8100 printer driver to ensure pages in the hard copy match the electronic copy. The offeror shall not embed sound or video (e.g., MPEG) files into the proposal files, except in the oral presentations. Use of sound or video files within the oral presentations is acceptable. In addition the offeror’s proposal shall conform to the following:

- a) Limit colors to 256 colors at 1024x768 resolution; avoid color gradients.
- b) Keep embedded graphics as simple as possible; large graphics files are discouraged.
- c) Minimize the use of scanned images.
- d) Use of zipped or self-extracting archive files (e.g., .zip or .exe files) is allowed.

(b) **Operating System.** The proposals will be accessed in a client-server environment using Microsoft Windows 2000 Server and Windows 2000 professional workstation (client)..

(c) **Proposal Test Period.** To ensure offeror proposals are compatible with the Government’s hardware configuration, the offeror may personally deliver a test CD-ROM containing sample files to the IPO SSF address in the source selection facility, prior to the due date for past performance information at a time and date agreed upon by the contracting officer. The Government will test the CD-ROM in the offeror’s presence to determine whether the files are readable and the hypertext links properly connect the linked documents. This test is offered for the offeror’s benefit. The offeror remains solely responsible for ensuring its proposal can be accessed as required in the source selection evaluation environment.

(d) **Format and Structure.** Each CD-ROM shall include proposal files as indicated below. The offeror may replace RFP sample file names with other unambiguous titles and may use different file types (but see (a) above) to provide linking flexibility (however, a .pdf version of each proposal file is required). The electronic files must match the paper files in every respect. Each directory shall contain a cover page and a table of contents for that directory. Additionally, the offeror shall provide a glossary of all acronyms used, with an explanation of each and a list of technical reference material, if applicable, in File Directory 1 (DIR_1).

(1) **Root Directory.** Provide three files in the root directory of the CD-ROM. The first is a PDF file (TBLCONT.PDF) that serves as a table of contents for the entire proposal. The second file (PROPINFO.PDF) shall contain information to assist the Government evaluators in navigating through all the proposal files. The third file is a “tab-delimited ASCII file” (KTRINFO.TXT) containing the information as shown in the table below entitled “Root Directory Contents” in exact order with a tab between each entry. As all links between directories will be broken when inserted into the IPO evaluation software tool, each directory must contain all links desired for substantiation or increased insight within that directory.

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FILE NAMES	ROOT DIRECTORY CONTENTS	SECTION L&M REF
TBLCONT.PDF	Table of Contents for Entire Proposal	527
PROPINFO.PDF	Proposal Information	527
KTRINFO.TXT	offeror Information Containing:	527
	Name of offeror XYZ Inc	
	Name of Official Point of contact Ms. Jane Smith	
	Title of POC President	
	POC Phone Number 310-555-1234	
	E-Mail Address contractor.com	
	Address Line 1 123 West St	
	Address Line 2 Suite 500	
	Address Line 3 Mail Stop 422	
	Address Line 4 Blank	
	City Any town	
	State Any state	
	Zip Code 11111-1111	
	Title of Proposal NPOESS EMD & Production	
	Classification of Proposal Unclassified	

(2) **PROPOSAL ORGANIZATION.** To aid in the evaluation of volumes, all proposals shall follow the same general format. Proposal volumes and page limits are identified in the tables below.

(3) **FILE DIRECTORY 1 - PROPOSAL INFORMATION.** This directory DIR_1 shall include the following files as named. The offeror shall hyperlink each table of contents entry to the appropriate file. Specific instructions for these files are in the corresponding Sec. L&M reference.

FILE NAMES	DIRECTORY 1 CONTENTS	SECTION L&M REF
DIR1CVR.PDF	Cover page for proposal	527 (a)
TBLCONT1.PDF	Table of Contents for Directory 1	527 (d)
PROPINFO1.PDF	Proposal Information for Directory 1	527
REFMAT.PDF	List of Technical Reference Material (if applicable)	527 (d)
ACRONYM.PDF	List of acronyms for entire proposal	527 (d)
Volume 1—Executive Summary		
EXECSUM.PPT	Executive Summary	561
Volume 2—Mission Capability		
MC1.PDF	Section 1—System Performance	562-1
MC2.PDF	Section 2—Segment Design	562-2
MC3.PDF	Section 3—SEIT and Planning	562-3
MC4.PDF	Section 4—Management and Organization	562-4
Appendices		
Volume 2 - Mission Capability		
IMS.MPP	Appendix A—IMS	535& 562-3
IMP.PDF	Appendix B—IMP	535& 562-3
XREF.PDF	Appendix C—Cross-Reference Matrix	533
Volume 3—Past Performance		

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PASTPERF.PDF	Past Performance	563
Volume 4 - Cost/Price Proposal		
COST.PDF	Section 1–Introduction	564
COSTS.XLS	Section 2–Cost Information	564
OTHER.PDF	Section 3–Other Information	564
PDRLCCE.XLS	Section 4-PDR LCCE	564
Volume 5–Program Risk Mitigation Oral Presentations		
OPRESNET.PPT	Oral Presentation Charts	565
Optional Files		
PASTDATA1.xxx	First Previously Submitted Data or PDR File	530
PASTDATA2.xxx	Second Previously Submitted Data or PDR File	530
PASTDATA3.xxx	Third Previously Submitted or PDR File	530
PASTDATA4.xxx	Fourth Previously Submitted or PDR File	530
PASTDATA5.xxx	Fifth Previously Submitted or PDR File	530
ETC.		

(4) FILE DIRECTORY 2 - MODEL CONTRACT, ATTACHMENTS & SUPPORTING

DOCUMENTATION. This directory DIR_2 shall include the listed files. Specific instructions for these files can be found in the referenced RFP paragraph. No signatures are required in the electronic files.

FILE NAMES	DIRECTORY 2 (DIR_2) CONTENTS	SECTION L&M REF
DIR2CVR.PDF	Cover page for model contract	
TBLCONT2.PDF	Table of Contents for Directory 2	
Volume 6 - Model Contract		
SF33.DOC	Solicitation Offer and Award (Section A)	566
MODEL.DOC	Model Contract (Sections B - J)	566
EXHIBITA.DOC	Exhibit A - Contract Data Requirements List (CDRL)	566
ATCH1.DOC	Atch 1 - Integrated Master Plan (IMP)*	566
ATCH2.DOC	Atch 2–NPOESS System Specification	566
ATCH3.DOC	Atch 3 -Contract Work Breakdown Structure (CWBS)	566
ATCH4.DOC	Atch 4 - Award Fee and Mission Success Fee Plan	566
ATCH5.DOC	Atch 5 - Government Furnished Property (GFP)	566
ATCH6.DOC	Atch 6 - Technical Data Restrictions	566
ATCH7.DOC	Atch 7 - SB/SDB Subcontracting Plan	566
ATCH8.DOC	Atch 8 - Contract Sec Classification Spec (DD Form 254)	566
Additional Documentation as Appendices to Volume 6		
APPENA.PDF	Appendix A–Representations And Certifications	566
APPENB.PDF	Appendix B–Exceptions	566
APPENC.PDF	Appendix C–Authorized Representative	566
APPEND.PDF	Appendix D - Location Information	566
APPENE.PDF	Appendix E - GFP Written Authorization	566
APPENF.PDF	Appendix F–Instrument Subcontract Arrangements	566

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L&M-530—PREVIOUSLY-SUBMITTED DATA AND PDR DATA

(a) The offeror's electronic submission may include one or more CD-ROMs of previously-submitted data and PDR data. Previously-submitted data includes any document, report, study, drawing, memoranda or other item produced under and during the NPOESS Program Definition and Risk Reduction (PDRR) program that was delivered to the IPO on or before the common cut-off date for submission of proposals. PDR data includes any deliverable for the offeror's Preliminary Design Review (PDR) which, in the offeror's opinion, affects the evaluation criteria of this source selection. The offeror is required to link from its Mission Capability, Past Performance, or Cost Volumes to the relevant sections of documents contained in the previously-submitted data and PDR data CD-ROM(s)—links shall not be to general areas or cover pages of documents but rather to the specific information substantiating specific assertions made in the Mission Capability, Past Performance, or Cost Volumes. The sole purpose of this submission is to provide substantiation and reinforcement of assertions made in the offeror's Mission Capability, Past Performance, or Cost Volumes, and only those documents which serve this purpose may be included. The Government is not obligated to evaluate previously-submitted data or PDR data, and does so only to the degree needed to substantiate the offeror's assertions made in its proposal and in the Program Risk Mitigation Oral Presentation.

(b). There are no page limits or formatting requirements for this submission.

L&M-533—CROSS-REFERENCE MATRIX

The Management Cross-Reference Matrix and the TRD/Spec Cross-Reference Matrix are intended to facilitate proposal preparation and evaluation. In the event any conflict is found to exist between either matrix and any other element of the solicitation, the other element of the solicitation shall have precedence. The offeror is responsible for completing each matrix and including them with the Mission Capability volume. The Government will use the completed matrix to verify that the submitted specifications address all of the requirements of the TRD (Table 533-2) and to evaluate the adequacy of the proposed Contract WBS and IMP (Table 533-1).

Table 533-1—Management Cross-Reference Matrix (sample)

SOO	RFP L/M	Proposal	WBS	CWBS	IMP

Table 533-2—TRD/Spec Cross –Reference Matrix (sample)

TRD	System Spec	Segment Spec	Element Spec*

*Additional columns for lower-level specs, interface control documents, and other documents are permitted.

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L&M-535—INTEGRATED MANAGEMENT FRAMEWORK (IMF)

(a) Introduction. The Government is implementing the Integrated Management Framework (IMF) approach for managing the NPOESS EMD program. The IMF approach provides the offeror a product orientation to the management of his effort while providing the Government greater visibility into the proposed efforts. To achieve the product orientation of the IMF philosophy, the offeror structures an integrated management system to logically flow down requirements through broad-level tasking within an event driven Integrated Master Plan (IMP). Two of the major features of the IMF approach are reviewed below.

(1) The first major feature is an approach for planning the contract effort and preparing the contract documentation, see Table 535-1. The Government's RFP provides the offeror with the elements shown in the left column of the table; i.e., Model Contract (Sections A - J plus attachments), Section L&M, Technical Requirements Document (TRD), Statement of Objectives (SOO), Work Breakdown Structure (WBS), and Contract Data Requirements List (CDRL), in accordance with the detailed proposal preparation instructions found in this RFP. The definitive contract contains the elements shown in the right hand column of the figure. These offeror-generated documents will be used in the evaluation of the proposal.

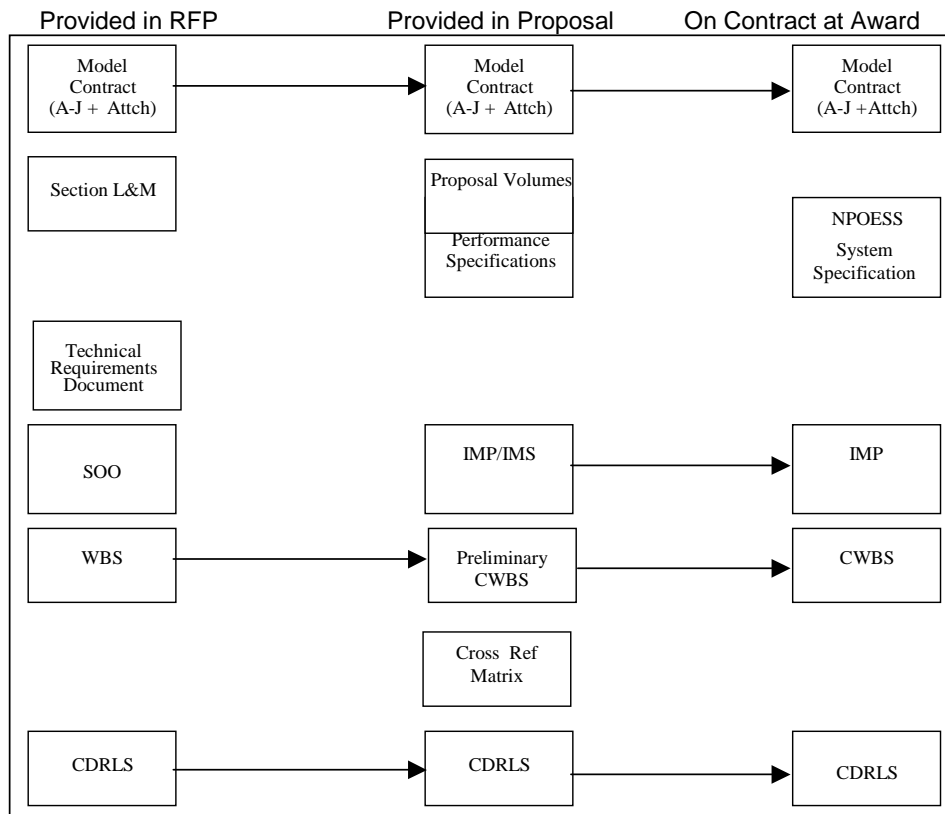


Table 535-1 Acquisition Approach

(2) The second major feature of the IMF approach is the use of Integrated Product Teams (IPTs) in implementing the event-driven plan described above. This approach involves a teaming of Government and offeror functional disciplines to integrate and concurrently apply all necessary processes to produce effective and efficient products that satisfy mission requirements. Under the IMF approach, the program is organized into IPTs that are both empowered and responsible for the performance of their specific product. Each IPT is given the authority to manage their product and allocate resources within the team. The IPT members represent all functions that have a role in the performance of the product, e.g., engineering, manufacturing, contracting, inspection, and logistics. IPT members work together to ensure that an efficient and effective product, which satisfies the requirements, is delivered. The term "product" under IMF also includes activities and processes as well as a specific product. The offeror organizes IPTs for the proposed EMD "products."

(b) Contractual Relationship Between The IMP And IMS.

(1) The IMP describes in detail how the work will be accomplished. The IMP (will take the place of a separate SOW) defines in detail what work is to be accomplished under the EMD and Production phases. The approved IMP is contractually binding and becomes Attachment 1 to the awarded contract. After contract award, the IMP cannot be changed except through normal contract change actions.

(2) In contrast, the IMS is a contract deliverable item under the CDRL and is to be updated "as required" (to maintain schedule flexibility) in accordance with the requirements of the offeror's CDRL.

(c) Integrated Master Plan (IMP).

(1) A Work Breakdown Structure (WBS) and associated dictionary have been provided in Annex A. The proposed CWBS shall be delivered as part of Volume 6 of the proposal. All tasks in the IMP shall be correlated to the CWBS proposed by the offeror. There should be a correlation between the CWBS, IMP and the IPTs proposed for the EMD, Production, and O&S phases of the program. The IMP and IMS shall use the CWBS numbering system to facilitate contract requirements traceability.

(2) The IMP shall clearly and concisely state the offeror's plans for how system engineering efforts will be conducted, how program tasks will be controlled and who, organizationally, will accomplish each task. It should identify key system engineering tasks, their interrelationships with program milestones, and the specific criteria that will be used to track and measure successful task completion. The IMP should provide top-to-bottom traceability from the system specification to Level 3 of the CWBS, except for sensors which shall be traced to Level 4. The IMP shall describe: a) key events and accomplishments to be met by the offeror under the contract; b) the associated criteria for the events and accomplishments; and c) the processes to be used in performing and reporting the tasks required by the contract. The IMP also groups the contract requirements so that designated IPTs may work these requirements. The offeror shall prepare the IMP in a format, which clearly and succinctly conveys to the Government the information requested above. Offeror format is encouraged for this document.

(A) Reserved.

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(B) Event: An Event is defined to be the initiation/conclusion of an interval of major program activity. It shall represent a decision point related to the system maturity with continued system development. Events identified may be in the format of entry and exit events (e.g. Initiate CDR and Complete CDR) or use entry and exit criteria for each event. Other examples are: a) Test Readiness Review, b) Functional Configuration Audit, or c) Physical Configuration Audit. The Government 's suggested events for the Engineering Manufacturing and Development phase are quarterly Program Management Reviews (PMR), Integrated Baseline Review (IBR), a Delta System Preliminary Design Review (PDR), a tailored System Critical Design Review (CDR), NPP Sensor Deliveries, NPP IDPS Delivery, NPP C3S Delivery, Test Readiness Reviews (TRR), a Functional Configuration Audit (FCA), a Physical Configuration Audit (PCA), a Test Plans/Procedures Review (TPP), NPOESS Space Segment Deliveries, NPOESS IDPS Delivery, NPOESS C3S Delivery, NPOESS Field Terminal Segment Delivery, a Pre-shipment Review, and satellite unit deliveries (launch and on-orbit checkout). Quarterly Program Management Reviews, consisting of technical and management aspects, are held to keep the Government informed and facilitate timely problem resolution. The Delta PDR shall be conducted to bring all segments to PDR level, if not all segments had achieved that level of design maturity at the PDRR PDR. The tailored CDR shall be conducted when the detail design is essentially complete to determine that the detail design satisfies the performance and engineering specialty requirements of the development specification. The NPP sensor deliveries are required to support the NPP. A TRR is conducted prior to each major test to determine that test procedures are complete and to assure that the offeror is prepared for formal testing. The FCA validates that the development of the system has been completed satisfactorily and that the satellite has achieved the performance and functional characteristics specified in the functional or allocated configuration identification. The PCA is a hardware review and technical examination to verify that the "As Built" system conforms to the technical documentation which defines the satellite. The offeror is encouraged to identify additional Key Events that best reflect the proposed program approach. For each IMP event, there shall be one or more entry or exit significant accomplishments (either entry or exit).

(C) Significant Accomplishment: A Significant Accomplishment is a specified result substantiating an event that indicates the level of progress or maturity directly related to each product/process. Accomplishment shall be measurable. Significant accomplishments are interim or final critical efforts that must be completed prior to entering or exiting an event. Entry accomplishments reflect what must be complete to initiate an event. Exit accomplishments reflect what must be done in order for the event to be successfully closed and that the EMD project is ready for the next event. For each significant accomplishment, there shall be one or more accomplishment criteria. Some examples of significant accomplishments which support a system Critical Design Review Event might be: a) Detailed design completed, b) Design compatibility check completed, c) risk assessment completed, d) producibility analysis completed, e) preliminary hardware product specification review completed. Significant accomplishments include—

- (i) A desired result at a specified event which indicates a level of design maturity, (or progress, directly related to each product and process),
- (ii) A discrete step in a process,
- (iii) A description of interrelationship between different functional disciplines applied to the program (e.g., Maintainability, Manufacturing, and Reliability - the significant accomplishments of each related to Events by IMP Section).

(D) Accomplishment Criteria: A definitive measure or useful indicator substantiating the maturity level of an associated Significant Accomplishment. It is the completion of specified work that ensures closure of a specified Significant Accomplishment. Criteria shall be

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measurable (e.g., "Test plan complete and accepted by the spacecraft IPT" is a measurable criteria, whereas "Test plan 85% complete" is difficult to assess, if at all). Examples of accomplishment criteria are—

- (i) Architectural trade studies satisfy stated objectives
- (ii) Allocated system requirements specified in segment performance requirement documents
- (iii) Draft Interface Control Documents completed and time critical interfaces identified
- (iv) Design risk assessment updated and risk reduction options

(E) Narratives: A collection of concise summaries providing visibility into the offeror's key functional and management processes and procedures, how they relate to the integrated product development process, and an overview of the efforts required to implement them. The narratives shall address only the key elements of implementing or developing a process/procedure (i.e. what the process/procedure will be and how it will be implemented and tracked). The narratives facilitate offeror and Government understanding of and commitment to critical processes/procedures prior to contract award. The narratives shall complement the respective significant accomplishment and accomplishment criteria sections by indicating where in the particular process the criteria apply. Each narrative subject area shall include a brief objective statement of desired results traceable to the SOO, the processes applicable to that objective, a listing of the proposed existing Government, industry, national and international specifications and standards to be used to achieve the objective. The offeror shall clearly state which of these documents are compliance and which are reference and which of these will be tailored. Compliance documents are contractually binding, while reference documents are for guidance only and are not contractually binding. However, company practices or procedures may only be listed as reference documents. The narratives shall be consistent with applicable technical and management approaches described in the Mission Capability Volume of the proposal. The narrative section is not the forum for providing supporting information or rationale (i.e., why a particular approach has been taken). The minimum list of essential processes for which the Government requires narratives is listed in Table 535-2. However, the offeror may discuss any additional areas that it feels are either critical or of a high risk to his approach.

(d) Integrated Master Schedule (IMS).

(1) In support of the IMP, the IMS provides a schedule for all the events, significant accomplishments, and accomplishment criteria described in the IMP. The IMS also outlines the detailed tasks and the corresponding calendar schedules (dates) necessary to show how each significant accomplishment will be achieved. All tasks outlined in the IMS should be related to specific IMP accomplishments.

(2) The IMP and the IMS employ a single numbering system based on the Contract Work Breakdown Structure (CWBS), which is also the cornerstone of the Earned Value Management Systems of both the Government and its contractors. The single numbering system provides traceability between the Significant Accomplishments and Accomplishment Criteria (IMP) and the Detailed Tasks (IMS).

(3) The offeror shall provide a top level IMS as part of its proposal. The more detailed levels of the IMS, as well as updates, shall be maintained and made available to the Government during contract performance upon request. The IMS is intended as a tool for day to day tracking of the program/project that rolls up to increasingly higher summary levels. The IMS is an integrated and networked multi-layered schedule of program/project tasks. The IMS identifies all

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IMP tasks, events, accomplishment, and criteria and the expected dates of each. For all significant activities, events, and milestones provide a task number, task name, duration, predecessor tasks, start date and finish date. Illustrate the proper interdependencies of all activities, events and milestones. Provide the offeror's assumptions used in estimating the task duration shown in the schedule (e.g., historical data, experience on similar efforts, vendor schedules, number of work days per week, number of shifts, company holidays, etc.). Define the program's critical path for the period of performance of this contract, and provide supporting narrative that explains the critical path and any unusual program aspects. Any anticipated Government support must be identified.

Table 535-2—Minimum Required IMP Narratives

Systems Engineering. Define the processes to be used for conducting requirements analyses, performing functional analyses, allocating performance requirements, synthesizing design solutions, and performing systems analysis and trade-off studies. Describe the methodologies that will be used in measuring progress, evaluating alternatives, selecting preferred alternatives, and documenting data and decisions. Include the following as part of the systems engineering processes:

Software Systems Engineering. Describe the role of software in NPOESS design, development, test, operations, and maintenance and your commitment to following the Software Development Plan.

Environmental Compliance. Define the processes to be used for integrating environmental protection considerations into the overall NPOESS system architecture and engineering process

System Safety and Health. Define the processes to be used to develop a system-wide safety and health program that will ensure that safety and health engineering requirements are identified and factored into the design of the NPOESS.

Hazardous Materials Management. Define the processes to be used for identifying, justifying, minimizing, eliminating, and controlling hazardous materials that will be used during manufacture, processing, maintenance, repair, and disposal of systems components and associated support items.

Design Considerations. Define the processes to be used for developing design criteria and special test requirements that will ensure the integrity of the structure, moving mechanical assemblies, and propulsion systems.

Electromagnetic Compatibility. Define the processes to be used in conducting an overall EMD electromagnetic effects program.

Contamination. Define the processes that will be used in conducting a contamination control program to deal with environmental control of clean rooms, work stations, cleanliness levels and general contamination control during all phases of the hardware's lifetime from initial build, through in-orbit end of life.

Quality Assurance. Define the processes to be used in conducting the quality assurance program for system hardware and software during design, development, manufacturing, (EMD and Production phases) and test.

Data Management. Define the processes to be used by which all program data (both technical and cost data) will be developed, maintained, and made available to the Government electronically.

Integrated Logistics Support (ILS). Describe the logistics support analysis approach and how that process will be used in developing supportable systems.

Program Protection. Define the processes, via a Security Implementation Plan, to be used for safeguarding critical aspects of the program identified in the NPOESS Program Protection Plan (PPP).

L&M-540—PROPOSAL ASSUMPTIONS

The assumptions provided in Table 540-1 are to allow the offerors to prepare their proposals on a common basis. The offeror's IMP, IMS, and Cost proposal should include these assumptions. However, the Government does not warrant that the assumptions will translate to actuality during the life of the EMD/Production contract.

Table 540-1—Proposal Assumptions	
Dec2004	OMPS instrument is delivered for flight-of-opportunity
18 Months Prior to NPP Launch Date	Test-validated thermal math models and finite element models of the VIIRS and CrIS instruments are delivered to NPP satellite contractor
Aug 2004	Government-provided facility in the Washington area for MMC is available for installation of C3S equipment; Government-provided facility in the Washington area for IDPS is available for installation of the IDPS equipment
15 Months Prior to NPP Launch Date	GSE for the NPP VIIRS and CrIS sensors are delivered to NPP satellite contractor
14 Months Prior to NPP Launch Date	Support for VIIRS and CrIS instrument integration and test with the NPP spacecraft, including continuous VIIRS and CrIS operation and performance evaluation, begins and extends through 3 months after NPP Launch date; CrIS and VIIRS flight-qualified instruments are delivered to NPP satellite contractor
12 Months Prior to NPP Launch Date	NPP C3S System Installation and Site Acceptance is complete; NPP IDPS Hardware and Software infrastructure installation and check-out is complete at a Washington area facility; Complete acceptance test with representative system resource utilization by demonstrating NPP RDR & EDR processing functionality, not including EDR attribute requirement satisfaction; and Support to NPP mission system integration and test begins
9 Months Prior to NPP Launch Date	NPP IDPS infrastructure functionality is demonstrated at second central (AFWA)
7 Months Prior to NPP Launch Date	C3S NPP Mission System Integration and Test are complete
6 Months Prior to NPP Launch Date	Complete NPP Mission System Integration and Test for RDR delivery to one Central (Washington area) is achieved
5 Months Prior to NPP Launch Date	Complete NPP Mission System Integration and Test for RDR delivery to the second Central (AFWA) is achieved;
3 Months Prior to NPP Launch Date	Complete NPP Mission System Integration and Test for EDR (incl. attribute requirement satisfaction) is delivered at one Central (Washington area)
2 Months Prior to NPP Launch Date	Complete NPP Mission System Integration and Test for EDR (incl. attribute requirement satisfaction) is delivered at second Central (AFWA)
Oct 2005	The contractor provides the preliminary specification for the hardware and storage requirements needed to run the LRD and HRD field terminal software

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31 Jan 2006 (Objective)	NPP launches
31 May 2006 (Threshold)	
Mar 2008	A satellite is available for call-up in a 1330-orbit configuration as back-up to POES N'; and IDPS and C3S functionality is available to support a 1330-orbit at all Centrals and two MMCs
Feb 2009	IDPS and C3S functionality is available to support all orbits at all Centrals and two MMCs; and A satellite is available for call-up in any orbit configuration to back-up DMSP F-20 (unless previously called-up to back-up N' in a 1330 orbit)
Apr 2009	A satellite launches in a 2130 orbit; and A satellite is available for call-up to back-up
Jun 2011	A satellite launches in a 1330 orbit; and A satellite is available for call-up to back-up (based on prior exercise of a replenishment satellite option)
Sep 2011	IOC is declared
Apr 2013	A satellite launches in a 1730 orbit; and A satellite is available for call-up to back-up (based on prior exercise of a replenishment satellite option)
Jun 2018	The NPOESS Program's 10-year life ends

L&M-544—SENSOR BASELINES

(a) The Government has established baselines for the sensors shown in Table 544-1. In its Mission Capability volume (see L&M-562), the offeror is not required to substantiate its technical baseline for these sensors or their algorithms/science code, but wherever the offeror's solution differs from the baseline, this difference should be explained.

TABLE 544-1—DEVELOPMENT SENSOR BASELINES				
Sensor	Vendor	WBS Element	Sensor System Spec #	Should Sensor be GIID/Data Bus Compliant in Proposal?
CrIS	ITT	1.2.3.3	8179801 - Version 4	Yes, GIID and 1394
VIIRS	Raytheon SB	1.2.3.1	PRF SS154640-001	Yes, GIID and 1394
GPSOS	Saab Ericsson	1.2.3.6	P-GOS-SPC-0002-SE Issue 7	Yes, GIID and 1553
ATMS	Northrop Grumman	1.2.3.4	GSFC POS 429-00-06-03 CH- 04 29 Oct 2001	Yes, GIID and 1553 (Exceptions in Appendix)
OMPS	Ball	1.2.3.5	542798 Ver 3.0	Yes, GIID and 1553*
CMIS	Boeing	1.2.3.2	SS80563-H00-001	Yes, GIID and 1394*

*The Government acknowledges that an offeror's initial proposal may not include GIID and Data Bus compliant OMPS and CMIS sensors. In such a case, the offeror must still propose a GIID/Data Bus compliant spacecraft bus and should not propose alternatives to the GIID/Data Bus for the OMPS and CMIS interfaces to the spacecraft bus. The offeror may propose unique CMIS and OMPS interfaces that provide benefit without replacing GIID/Data Bus functionality. The offeror must be prepared to provide a GIID/Data Bus compliant space segment during the negotiations period of the source selection.

(b) SARSAT (WBS 1.2.3.8) and ADCS (WBS 1.2.3.7) are GFE. Wherever L&M-562 requires information regarding these sensors, the offeror need only show how to accommodate SARSAT and ADCS on the spacecraft. It does not have to substantiate the design of these sensors.

(c) Wherever L&M-562 requires information on the Other Payloads (WBS 1.2.3.n), the Government expects a sensor design description and algorithm/science code design description. APS is the only exception; the offeror is not required to substantiate the design of the APS sensor or its algorithms/science code. It is only required to accommodate APS in the system and describe that accommodation design. The space and C3 segments must accommodate the threshold requirements as specified in the Draft APS Sensor Requirements Document.

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L&M-560—PROPOSAL SUBMISSION REQUIREMENTS SUMMARY

The due dates and page limits of the offeror's proposal are shown in Table 560-1. The offeror must consult the reference citation for specifics on proposal volume content and arrangement, including section page limits.

Table 560-1 -- PROPOSAL SUBMISSION REQUIREMENTS SUMMARY				
<u>Due Date</u>	<u>Title</u>	<u># Of Copies</u>	<u>Page Limit</u>	<u>Reference</u>
(*)	Test of electronic media on CD-ROMs	n/a	n/a	L&M-527
(*)	Planned Schedule Overlaps for PRMOP	1	n/a	L&M-517
15 FEB 2002	Badging Requirements Information for PRMOP	1	n/a	Annex C
01 MAR 2002	Volume 3—Past Performance (paper)	5	50	L&M-563
	Planned Schedule for PRMOP	1	n/a	Annex C
15 MAR 2002	Common cut-off date for submission of proposals—			
	Vol. 1—Executive Summary (paper)	5	18	L&M-561
	Vol. 2—Mission Capability (paper)		200**	L&M-562
	Vol. 2a—System Performance	10		
	Vol. 2b—Segment Design	10		
	Vol. 2c—SEIT and Planning	10		
	Vol. 2d—Management and Organization	10		
	Vol. 4—Cost (paper)	2	n/a	L&M-564
	Vol. 5—Program Risk Mitigation Oral Presentation (paper)	5	n/a	L&M-565
	Vol. 6—Model Contract and Business Arrangements (paper)	2	n/a	L&M-566
	Proposal CD-ROM(s)—Volumes 1, 2, 3, 4, 5, and 6	2	n/a	L&M-527
	Previously-Submitted Data and PDR Data CD-ROM(s)	2	n/a	L&M-530
* at the offeror's convenience but at least two weeks before proposal submission.				
** four sub-volumes are to total 200 pages combined, but this limit does not include tables of contents, cross reference matrices, or acronym lists—this also does not include the IMS (no page limit) or the IMP (75 pages) as described in L&M-562.				

L&M-561—PROPOSAL VOLUME 1 INSTRUCTIONS—EXECUTIVE SUMMARY

(a) **Section 1—Executive Summary.** A brief and integrated overview of the offeror's total proposal describing how the objectives of the acquisition will be met, with highlights of the proposed system concept. This section should be in landscape format.

(b) **Section 2—Outcomes.** A brief description of the outcomes or objectives the Government should expect from each CLIN. The CLIN outcomes and objectives description should include short narratives on the outcomes and objectives of a few key milestones to be achieved in that CLIN. This section should be in landscape format

(c) **Section 3—Subcontracts.** A summary outline of how the effort required by the solicitation will be assigned for performance within the offeror's corporate entity and among proposed subcontractors. This section should be in landscape format. Subcontractor information should also be included where appropriate in the other volumes of the proposal.

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L&M-562—PROPOSAL VOLUME 2 INSTRUCTIONS—MISSION CAPABILITY

The offeror will submit a paper and an electronic version of this Volume, but the two must be identical in every respect except that the electronic version may include links to electronic Previously-Submitted Data and PDR Data (see L&M-530) and to the electronic Program Risk Mitigation Oral Presentation Volume (see L&M-565). Liberal use of these links are encouraged; however, the offeror is cautioned that links from this Volume 2 to these other files are allowed only for substantiation and reinforcement of the assertions made within this Volume 2.

Accordingly, Volume 2 must include sufficient information and detail to allow Government evaluators to perform an assessment without reliance on the linked material.

This provision is divided into four sections, as follows—

Section 1—Subfactor 1—System Performance;

Section 2—Subfactor 2—Segment Design;

Section 3—Subfactor 3—Systems Engineering, Integration & Test, (SEIT) and Planning; and

Section 4—Subfactor 4—Management and Organization.

The entirety of Volume 2 is limited to 200 pages, except that the IMP and IMS required by Subfactor 3 may be submitted as annexes to Volume 2 and are not included in the 200-page limit. The IMS is not page limited. The IMP is limited to 75 pages.

L&M-562—PROPOSAL VOLUME 2 INSTRUCTIONS—MISSION CAPABILITY (cont'd)

Section 1—Subfactor 1—System Performance.

This section outlines the overall performance of the proposed NPOESS. The focus of the section is the offeror's concept of operations and its system-level performance compared to the TRD. This section outlines the information required to make an overall system performance assessment. To facilitate evaluation of this subfactor, and for no other purpose, it is subdivided into three parts (but the evaluation remains at the subfactor level and no ratings are assigned to the parts)—

- 1.1 System Compliance (see Table 562-1.1);
- 1.2 System Description (see Table 562-1.2); and
- 1.3 Calibration, Validation, and Verification Approach (see Table 562-1.3).

Table 562-1.1—System Compliance

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
<p>(a) Provide its performance baseline in table format showing all performance characteristics, including EDRs and each EDR attribute, described in its System Specification as it relates to the TRD, including a description of the benefits and impacts of those parameters that exceed or do not meet threshold requirements and the rationale for not meeting the threshold. NOTE: TRD performance requirements fulfilled by the Aerosol Polarimeter Sensor (APS) should not be included in this description nor the NPOESS System Specification.</p> <p>(b) Describe any "deltas" between its system EDR performance and the ATMS, CMIS, CrIS, GPSOS, OMPS, and VIIRS instrument performance baselines established in L&M-544.</p>	<p>(a) The proposal and System Specification will be evaluated against the TRD and the NPOESS Program Prioritizations described in L&M-520 to ensure the offeror's overall proposed system provides a sound and satisfactory solution to the NPOESS program requirements.</p> <p>(b) The rationale for delivering performance that differs from the performance specified in the ATMS, CMIS, CrIS, GPSOS, OMPS, and VIIRS instrument baselines will be evaluated for soundness of approach.</p>

Table 562-1.2—System Description

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
<p>(a) Provide an overall system description/CONOPS for all the segments that are addressed in the subsequent sections.</p> <p>(b) Provide a data flow diagram that depicts the data flow from the sensor measurement to the actual production of user environmental data.</p> <p>(c) Describe the trades conducted and how</p>	<p>(a) The System CONOPS will be evaluated for compliance with the offeror's system specification.</p> <p>(b) The data flow diagram will be evaluated to ensure that it addresses the entire system data flow and processing for NPOESS and NPP.</p> <p>(c) The proposal will be evaluated against the</p>

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Table 562-1.2–System Description	
they resulted in best value to the Government.	trade-off process referenced in L&M-520 (NPOESS System Prioritizations).

Table 562-1.3–Calibration, Validation, and Verification Approach	
<p>INSTRUCTIONS. The offeror shall—</p> <p>(a) Describe the end-to-end system-level plan in general for validating EDR and RDR products, including the pre-launch instrument characterization and EDR product simulation verification plans, the post-launch EDR and RDR product validation plans, and its long-term EDR and sensor calibration and validation monitoring and trending plans.</p> <p>(b) Describe the analysis, tools, sensor engineering development units, IWPTB, and external data and resources used throughout the EDR, SDR, TDR, and RDR product development and verification process, including a description of the verification of the offeror's modeling and simulation tools.</p> <p>(c) Specify the required Government support to its calibration, validation, and verification program and highlight compatibilities with the concepts in the Government's NPP Calibration and Product Validation Plan.</p> <p>(d) Describe how it will incorporate, track, and use the truth sets described in its Cal/Val approach to support its EDR product verification effort, highlighting application of Government-acquired truth data sets made available through the NPP and NPOESS EDR and RDR Product Calibration and Validation Plans.</p> <p>(e) As examples of its Cal/Val program, provide draft end-to-end Cal/Val descriptions for the CrIS-ATMS and VIIRS Sensors with sufficient detail to demonstrate knowledge of Cal/Val techniques.</p>	<p>EVALUATION CRITERIA.</p> <p>(a) The general Cal/Val approach will be evaluated to ensure that it is reasonable and executable.</p> <p>(b) The system tools and their utilization will be evaluated to ensure that the overall Cal/Val concept is comprehensive and will demonstrate EDR product performance.</p> <p>(c) The level and type of Government support/interaction will be evaluated for soundness of approach.</p> <p>(d) The use of Government-provided truth data within the EDR product verification approach will be evaluated for efficiency of calibration and validation efforts and synergy between the EDR product verification plan and Government verification efforts.</p> <p>(e) The Cal/Val approach will be evaluated for completeness and understanding of the CrIS-ATMS and VIIRS calibration requirements.</p>

L&M-562—PROPOSAL VOLUME 2 INSTRUCTIONS—MISSION CAPABILITY (cont'd)

Section 2—Subfactor 2—Segment Design.

The focus of the section is the allocation of system level requirements to each of the segments, the ability of segment designs to achieve those requirements, trades conducted and rationale for deviations from Government procured sensor baselines and design provisions for flexibility and growth. This section outlines the information required to make an integrated assessment of the ability of the offeror's design to achieve predicted performance. To facilitate evaluation of this subfactor, and for no other purpose, it is subdivided into four parts (but the evaluation remains at the subfactor level and no ratings are assigned to the parts)—

- 2.1 Space and Launch Support Segments (see Table 562-2.1);
- 2.2 Command, Control, and Communications Segment (C3S) (see Table 562-2.2);
- 2.3 Interface Data Processing Segment (IDPS) (see Table 562-2.3); and
- 2.4 Field Terminal Segment (see Table 562-2.4).

Table 562-2.1—Space and Launch Support Segments	
INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
(a) Provide the allocation of the system specification requirements to the space segment.	(a) The proposal will be evaluated for accurate and complete flow down of the system requirements to the Space Segment specification.
(b) Describe the satellite design and how it will meet the requirements of the Space Segment Specification, including how the satellite design will facilitate data collection, generation of raw sensor data, and data flow.	(b) The satellite design will be evaluated against the parameters of the space segment specification to verify that the SS design can deliver the required performance (the Government's evaluation may include using simulation, inspection, and/or analysis).
(c) Describe any "deltas" in sensor design from the ATMS, CMIS, CrIS, GPSOS, OMPS, and VIIRS instrument baselines established in L&M-544.	(c) Parameters varying from ATMS, CMIS, CrIS, GPSOS, OMPS, and VIIRS instrument baselines will be evaluated against the requirements of the Space Segment specification, including an evaluation of the technical rationale and design benefit for all attributes that vary from the established baselines.
(d) Discuss how design flexibility will accommodate segment changes/updates.	(d) The design will be evaluated for flexibility to accommodate (i) technology assessment, development, and insertion; (ii) component assessment and selection; (iii) performance enhancements; (iv) requirement changes; and (v) future risk reduction plans for the space segment.
(e) Describe the benefit of any sensor design changes recommended by the offeror to, and implemented by, the Government in the PDRR phase.	(e) The Government will evaluate the benefit of any sensor design changes recommended by the offeror to, and implemented by, the Government in the PDRR phase, for contributions to overall system best value.
(f) Describe the Space Segment software design including (i) the allocation of Space Segment requirements to software; (ii) how the design will meet those requirements; (iii) the use of COTS and Reusable Code and their integration into the Segment; (iv) how sensor software will integrate with the satellite software; and (v) how the satellite and sensor software will be maintained after launch.	
(g) Describe any non-standard launch support requirements, any deviation from the Standard	

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Interface Specification (SIS), and how the offeror will ensure that the requirements are supported (detailed substantiation will be required if non-standard services are required to a large degree).	<p>(f) The Space Segment software design will be evaluated to ensure completeness, feasibility, performance, robustness, and maintainability.</p> <p>(g) The launch support requirements will be evaluated for completeness, conformance to the SIS, and soundness of approach.</p>
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Table 562-2.2—Command, Control, and Communications Segment (C3S)	
<p>INSTRUCTIONS. The offeror shall—</p> <p>(a) Provide the allocation of the system specification requirements to the C3S specification.</p> <p>(b) Describe how the C3S design meets the requirements of the C3S specification, including how the C3S design will facilitate data collection and data delivery.</p> <p>(c) Describe the NPP C3S system design and the approach to transition from the NPP C3S architecture to the NPOESS architecture.</p> <p>(d) Describe the benefit of any C3S design changes recommended by the offeror to, and implemented by, the Government in the PDRR phase.</p> <p>(e) Describe the flexibility of its C3S architecture to accommodate additional remote sensing missions, in addition to NPOESS and NPP (e.g., in general terms, what changes would be required to command and recover data from a TOPEX and a EUMETSAT satellite?).</p> <p>(f) Describe the C3S software design, including (i) the allocation of C3S requirements to software; (ii) how the design will meet those requirements; and (iii) the use of COTS and its integration into the C3S.</p>	<p>EVALUATION CRITERIA.</p> <p>(a) The proposal will be evaluated for accurate and complete flow down of the system requirements to the C3S specification.</p> <p>(b) The C3S design will be evaluated against the parameters of the C3S specification to verify that the C3S design can deliver the required performance (the Government's evaluation may include using simulation, inspection, and/or analysis).</p> <p>(c) The NPP C3S design will be evaluated for completeness, the ability to execute the program to meet NPP need dates, and optimization of the transition to NPOESS.</p> <p>(d) The Government will evaluate the benefit of any C3S design changes recommended by the offeror to, and implemented by, the Government in the PDRR phase, for performance and efficiency.</p> <p>(e) The C3S architecture will be evaluated for flexibility to accommodate additional remote sensing missions. The design will be evaluated for flexibility to accommodate (i) technology assessment, development, and insertion; (ii) component assessment and selection; (iii) performance enhancements; (iv) requirement changes; and (v) future risk reduction plans for the C3S.</p> <p>(f) The C3S software design will be evaluated to ensure completeness, feasibility, performance, robustness, and maintainability.</p>

Table 562-2.3—Interface Data Processing Segment (IDPS)

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
<p>(a) Provide the allocation of the system specification requirements to the IDPS specification.</p> <p>(b) Describe how the IDPS design meets the requirements of the IDPS specification, including how the IDPS design will facilitate generation of RDRs, SDRs, TDRs, and EDRs and deliver data to external users.</p> <p>(c) Describe any “deltas” in algorithm/science code design from ATMS, CMIS, CrIS, GPSOS, OMPS, and VIIRS instrument data processing baselines as set in L&M-544.</p> <p>(d) Describe the NPP IDPS system design and the approach to transition from the NPP IDPS architecture to the NPOESS architecture, including a description of RDR, SDR, TDR, and EDR processing.</p> <p>(e) Describe the benefit of any algorithm design changes recommended by the offeror to, and implemented by, the Government in the PDRR phase.</p> <p>(f) Describe the flexibility of its IDPS architecture to accommodate additional remote sensing missions, in addition to NPOESS and NPP (e.g., in general terms, what changes would be required to process data from a TOPEX and a EUMETSAT satellite?).</p> <p>(g) Describe the IDPS software design, including (i) the allocation of IDPS requirements to software; (ii) how the design will meet those requirements; (iii) the use of COTS and its integration into the Segment; (iv) how sensor vendor algorithm software will be incorporated and integrated into the IDPS; and (v) how the software design will accommodate modified and new algorithms.</p>	<p>(a) The proposal will be evaluated for accurate and complete flow down of the system requirements to the IDPS specification.</p> <p>(b) The IDPS design will be evaluated against the parameters of the IDPS specification to verify that the IDPS design can deliver the required performance (the Government’s evaluation may include using simulation, inspection, and/or analysis).</p> <p>(c) Design parameters varying from ATMS, CMIS, CrIS, GPSOS, OMPS, and VIIRS instrument baselines will be evaluated against the requirements of the IDPS specification, including an evaluation of the technical rationale and design benefit for all attributes that vary from the established baselines.</p> <p>(d) The NPP IDPS design will be evaluated for completeness, the ability to process NPP generated data, the ability to execute the program to meet NPP need dates, and optimization of the transition to NPOESS.</p> <p>(e) The Government will evaluate the benefit of any algorithm design changes recommended by the offeror to, and implemented by, the Government in the PDRR phase, for performance and efficiency.</p> <p>(f) The IDPS architecture will be evaluated for flexibility to accommodate additional remote sensing missions, including flexibility to accommodate (i) technology assessment, development, and insertion; (ii) component assessment and selection; (iii) performance enhancements; (iv) requirement changes; and (v) future risk reduction plans for the IDPS segment.</p> <p>(g) The IDPS software design will be evaluated to ensure completeness, feasibility, performance, robustness, and maintainability.</p>

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Table 562-2.4—Field Terminal Segment	
<p>INSTRUCTIONS. The offeror shall—</p> <p>(a) Provide the allocation of the system specification requirements to the Field Terminal segment specification.</p> <p>(b) Describe how the Field Terminal segment design software meets the requirements in the Field Terminal segment specification and the approaches to identify Government hardware and interface requirements.</p> <p>(c) Describe EDR performance for HRD.</p> <p>(d) Describe EDR performance for LRD.</p> <p>(e) Discuss how design flexibility will accommodate segment changes/updates.</p> <p>(f) Describe the Field Terminal Segment software design, including (i) the allocation of Field Terminal requirements to software; (ii) how the design will meet those requirements; (iii) the use of COTS and Reusable Code and their integration into the Segment; (iv) how sensor vendor algorithm software will be incorporated and integrated into the Field Terminals; and (v) how the software design will accommodate modified and new algorithms.</p>	<p>EVALUATION CRITERIA.</p> <p>(a) The proposal will be evaluated for accurate and complete flow down of the system performance requirements to the Field Terminal segment specification.</p> <p>(b) The Field Terminal segment design will be evaluated against the parameters of the Field Terminal Segment specification for meeting EDR performance requirements. The HRD approach will be evaluated for its likelihood to provide operational suitability in a regional, stationary-type environment. The LRD approach will be evaluated for its likelihood to provide operational suitability in a tactical, mobile, lightweight-type environment. (The Government's evaluation may include using simulation, inspection, and/or analysis.)</p> <p>(c) The segment design will be evaluated against EDR threshold performance requirements for HRD over a variety of environmental conditions.</p> <p>(d) The LRD EDR Performance specification in the Field Terminal Segment specification will be evaluated for best value performance.</p> <p>(e) The design will be evaluated for flexibility to accommodate (i) technology assessment, development, and insertion; (ii) component assessment and selection; (iii) performance enhancements; (iv) requirement changes; and (v) future risk reduction plans for the Field Terminal segment.</p> <p>(f) The Field Terminal Segment software design will be evaluated to ensure completeness, feasibility, performance, robustness, and maintainability.</p>

L&M-562—PROPOSAL VOLUME 2 INSTRUCTIONS—MISSION CAPABILITY (cont'd)

Section 3—Subfactor 3—Systems Engineering, Integration & Test (SEIT) and Planning.

This section outlines the information required to make an assessment of the adequacy of the overall systems engineering integration, & test (SEIT), and planning approaches proposed for the program. A disciplined system engineering process, focused on reducing risk and cost, that is pervasive in terms of implementation of common tools and processes across the prime offeror, sister companies, subcontractors and vendors, is essential for program success. The first parts focus on information and criteria needed to assess the proposed Systems Engineering approach. The focus of the planning-related parts is program planning implementing a real time Integrated Management Framework (IMF) to support program insight and control, and planning for development and deployment of the integrated logistics support program for NPOESS. The tables show the information and criteria required to make an assessment of the adequacy of program planning, management and program processes, tools and procedures proposed by the offeror. To facilitate evaluation of this subfactor, and for no other purpose, it is subdivided into seven parts (but the evaluation remains at the subfactor level and no ratings are assigned to the parts)—

- 3.1 Systems Engineering Process (see Table 562-3.1);
- 3.2 Test and Evaluation Approach (see Table 562-3.2);
- 3.3 Integrated Management Framework (see Table 562-3.3);
- 3.4 Integrated Master Plan (see Table 562-3.4);
- 3.5 Integrated Master Schedule (see Table 562-3.5);
- 3.6 Supportability (see Table 562-3.6); and
- 3.7 Software Systems Engineering (See Table 562-3.7).

Table 562-3.1—Systems Engineering Process	
INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
(a) Describe its systems engineering process (including tools) and how the subcontractor and sister company processes will be integrated into a single process.	(a) The proposed system engineering process will be evaluated for a streamlined approach and the effective integration of the subcontractors and sister companies into the process.
(b) Describe its plan to effectively coordinate its Systems Engineering process with the joint IPO /NASA NPP Systems Engineering process.	(b) The plans for coordinating the offeror's Systems Engineering process with the NASA NPP Systems Engineering process will be evaluated for streamlining and effectiveness.
(c) Describe its approach to managing NPOESS and NPP external and inter-segment interfaces and identify all external and inter-segment interfaces, ICDs, POCs, etc.	(c) The approach to managing external and inter-segment interfaces will be evaluated to determine that it is comprehensive, well defined, mature, and that adequate interface control has been established.
(d) Describe its approach to EMI/EMC/RFI management, contamination control, and configuration management.	(d) The offeror's approach will be evaluated to assess understanding of EMI/EMC/RFI management, contamination control, and configuration management.
(e) Describe its approach to Risk Management; identify the top 10 risks for both the NPOESS and NPP programs (a total of 10 risks), and discuss its risk management plans.	(e) The offeror's approach will be evaluated to assess understanding of risk management and

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Table 562-3.1—Systems Engineering Process

	demonstration of satisfactory plans for further risk management and mitigation.
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Table 562-3.2—Test And Evaluation Approach

INSTRUCTIONS. The offeror shall— Describe the approach for manufacturing, integration, environmental testing, and acceptance testing. Describe how they are integrated into the verification and test program following the guidance of the TEMP.	EVALUATION CRITERIA. The T&E program will be evaluated to ensure that it is a comprehensive system verification approach compatible with TEMP guidance, that it will ensure maximum use of early testing, and that redundant testing is minimized.
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Table 562-3.3—Integrated Management Framework (IMF)

INSTRUCTIONS. The offeror shall— (a) Describe how the CWBS flows from the Government WBS provided in L&M Annex A. (b) Describe how the IMP and IMS flow from the CWBS and SOO. (c) Describe how the IMP and IMS formulate the BCWS. (d) Show how it will use the Earned Value Management System (EVMS) to control the program and ensure it is executed to schedule and allocated budget.	EVALUATION CRITERIA. (a) (b) (c) The offeror's IMF structure (CWBS, IMP, IMS) will be evaluated to ensure that the actions necessary to design, develop and produce the NPOESS are included and track with events, accomplishments, and criteria contained in the IMP and scheduled in the IMS. (d) The offeror's EVMS will be evaluated to ensure that it provides accurate, timely, meaningful management control information. In addition, the EVMS will be evaluated to ensure that work packages link to the IMP and IMS events, accomplishments, and criteria.
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Table 562-3.4—Integrated Master Plan (IMP)

INSTRUCTIONS. The offeror shall— (a) Provide an IMP following the guidelines in L&M-535 (and the assumptions in L&M-540), including the events that the offeror feels are critical to the program. (b) In the IMP, provide IMP process narratives for its key systems engineering and management processes to include the linkages to subcontractors and sister divisions. (c) Provide a launch date for NPP that falls within the threshold and objective dates	EVALUATION CRITERIA. (a) The IMP will be evaluated to ensure it contains clearly measurable events supported with well-defined accomplishments and criteria, which enable the offeror to monitor and manage progress in EMD development and production. (b) The processes described in the IMP will be evaluated to ensure they provide adequate controls and standardization and to ensure that they demonstrate that the offeror has adequate system engineering and
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Table 562-3.4—Integrated Master Plan (IMP)

provided in L&M-540.	management control processes in place for all aspects of the program. (c) There is value to the Government if the NPP launch date approaches objective. The launch date will be evaluated for its feasibility and risk in terms of all the prerequisite milestones that must be accomplished.
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Table 562-3.5—Integrated Master Schedule (IMS)

INSTRUCTIONS. The offeror shall— (a) Provide an IMS that details the program schedule required to execute the proposed program, including (i) linkage to the IMP events, accomplishments and criteria; (ii) the Critical Path clearly defined in the IMS; and (iii) a resource-loaded schedule. (b) Discuss the results of a Monte Carlo simulation of the IMS critical path, reflecting 20/80, 50/50, and 80/20 probabilities of success.	EVALUATION CRITERIA. (a) The level of detail and integration of the IMS will be evaluated (i) to determine how well it shows the calendar schedule and task loading to achieve each significant event; and (ii) for reasonableness and consistency with the IMP. (b) The critical path will be evaluated to ensure that it is realistic, achievable, reflects a resource loaded risk schedule, and as demonstrated by Monte Carlo analysis, portrays a total program critical path.
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Table 562-3.6—Supportability

INSTRUCTIONS. The offeror shall— (a) Provide a summary ILS description that addresses the following ILS elements for NPOESS and NPP initial and follow-on operations and maintenance capability, including (i) maintenance planning concept; (ii) supply support management concept; (iii) packaging, handling, storage and transportation concept; (iv) support equipment concept; (v) facility management concept; (vi) manpower and personnel concept; (vii) training management concept; (viii) computer resources management concept, and technical manual development concept. (b) Provide the approach to develop and provide Pre-IOC Contractor Operations and Support, including site activation support.	EVALUATION CRITERIA. (a) The offeror's ILS description will be evaluated to determine if it conveys a clearly integrated support approach, including NPP operations and maintenance. (b) The Pre-IOC Contractor Operations and Support approach will be evaluated to ensure that it provides a low risk, low cost approach to support operations through IOC.
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Table 562-3.7 Software Systems Engineering	
INSTRUCTIONS. The offeror shall— (a) Describe its software development process, test approach, and tools, including (i) software development management; (ii) coordination, integration and control of the software development among all software team members; (iii) the use and coordination of metrics; and (iv) the software and platform for the ground test bed for the development and maintenance of flight software. (b) Describe its ability to migrate algorithm science code from developing organizations into the IDPS and FTS operational software baselines. (c) Provide the Software Engineering Institute (SEI) Capability Maturity Model (CMM) Level for each software team member (and where an organization is not at CMM Level 3, (i) the plans to get it to Level 3 in 18 months after award of contract or (ii) plans to mitigate the software management risk of that organization for the life of the program) (Note 1: the rating must have been received within two years prior to the date of the proposal.) (Note 2: a software team member is any internal or external organization that develops, tests, or supports software-related work being performed for this contract; these organizations include, for example, intra-corporations software organizations, in-house service providers, developers, fabrication/manufacturing organizations, laboratories, and subcontractors).	EVALUATION CRITERIA. (a) The process will be evaluated to ensure soundness of the management approach, effective coordination and monitoring of the development, effectiveness of the metrics, and fidelity of the tools. (b) The approach will be evaluated to ensure the soundness of the technical processes, technical communication/coordination, and management approach that accommodates new science code while maintaining the integrity of the operational baseline(s). (c) SEI certification levels will be evaluated to determine the team's capability and to assess program risk.

L&M-562—PROPOSAL VOLUME 2 INSTRUCTIONS—MISSION CAPABILITY (cont'd)

Section 4—Subfactor 4—Management and Organization.

This section outlines the overall management and organizational approach for the NPOESS EMD, Production, and Pre- and Post-IOC Operations and Support programs. The focus of the section is the offeror's approach to organizing, staffing, and managing the NPOESS program within a Shared System Performance Responsibility (SSPR) environment and the offeror's facilities and processes required to complete the EMD, Production and Support programs. This section outlines the information required to make an assessment of the adequacy of organization and management approaches and plans proposed by the offeror. To facilitate evaluation of this subfactor, and for no other purpose, it is subdivided into five parts (but the evaluation remains at the subfactor level and no ratings are assigned to the parts)—

- 4.1 Overall Organizational Approach (see Table 562-4.1);
- 4.2 Subcontract and Sister Company Management (see Table 562-4.2);
- 4.3 Staffing Plan (see Table 562-4.3);
- 4.4 Facilities Planning (see Table 562-4.4); and
- 4.5—Small Business Participation (see Table 562-4.5).

Table 562-4.1—Overall Organizational Approach	
INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
(a) Describe where the NPOESS program fits in the overall corporate and sector organizational structure.	(a) Organizational placement with respect to other programs being executed within the corporation or sector will be evaluated to assess the ability of the NPOESS manager to obtain corporation or sector resources and appropriate program priority.
(b) Describe the program director's reporting channels and authority.	(b) The NPOESS Program Manager's reporting chain and level of financial decision authority will be evaluated to assess the ability of the NPOESS program management organization to be responsive to IPO requirements.
(c) Provide certification levels for quality, program management, and systems engineering for the company and its teammates.	(c) Levels of quality, program management, and systems engineering certifications will be evaluated to determine the team's capabilities and to assess program risk.
(d) Describe the approach for accepting and executing Shared System Performance Responsibility for NPOESS and NPP.	(d) The approach to accepting and executing SSPR will be evaluated to determine the offeror's ability to manage the NPOESS team to execute the NPOESS program within cost, schedule and performance constraints.
(e) Describe the approach to establish and operate the algorithm support capability, including use of the Operational Algorithm Teams (OATs).	(e) The offeror's approach to stand up and maintain the algorithm support capability will be evaluated to ensure that the offeror can support day-to-day operations and system updates as they occur.
(f) Provide an NPOESS program organizational chart that outlines its Integrated Product Team (IPT) structure, including (i) depiction of how the NPOESS program integrates with company core organizations and how Government representation on the IPTs will be implemented; and (ii) names of key personnel (e.g. program manager and deputies, system engineer, program control,	

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Table 562-4.1—Overall Organizational Approach

IPT leads, etc.) and their company affiliations.	(f) The organizational structure will be evaluated to ensure that IPTs are appropriately staffed and product oriented.
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Table 562-4.2—Subcontract and Sister Company Management

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
(a) Identify the key teammates including subcontractors and sister companies) and their role in the program, defining the role in terms of work share and the basis of the work share determination.	(a) Span of control within the offeror's NPOESS organization and the offeror's proposed mechanisms for integrating subcontractors and sister companies will be evaluated to assess the offeror's ability to achieve adequate technical integration.
(b) Describe how it will incentivize subcontractors, and sister companies to provide superior program performance.	(b) The offeror's incentivization approaches for its subcontractors and sister companies will be evaluated to ensure the offeror can achieve and maintain continued long-term commitment to the success of the program.
(c) Describe the approach for integrating the teammates processes and management systems.	(c) The offeror's approach to integrating teammate processes and management systems will be evaluated to determine the degree of standardization and streamlining across the NPOESS organizational structure.
(d) Describe how subcontractor performance to schedule and cost targets will be managed.	(d) Proposed subcontractor, sister company and vendor cost and schedule management controls will be evaluated to determine their consistency with the level of development and production risk.

Table 562-4.3—Staffing Plan

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
(a) Describe how it plans to staff the EMD, Production, and O&S programs, including include skill categories by levels (i.e., junior, journeyman and senior software engineer, financial analyst, program management, etc.).	(a) The sufficiency of the proposed manning levels and skill mix will be evaluated to ensure that they are adequate to execute the program.
(b) Describe the sources that it plans to use to staff the program for each skill category, including both internal and external sources.	(b) Proposed staffing sources will be evaluated for adequacy in terms of total numbers and availability.
(c) Provide brief biographies of its key program personnel to include teammates (down to tier 3 in the program organizational structure).	(c) Key personnel biographies will be evaluated to ensure that the offeror has staffed the NPOESS program with a leadership team possessing the knowledge, skills and experience required to deliver program success.
(d) Describe how it will incentivize its	

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Table 562-4.3—Staffing Plan

employees to provide superior performance.	(d) The offeror's employee incentivization plan will be evaluated to ensure the offeror can achieve and maintain continued long-term commitment to the success of the program.
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Table 562-4.4—Facilities Planning

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA.
<p>(a) Identify critical internal and external facility requirements to support the design, development, production, operation, and sustainment of the NPOESS system, including test facilities.</p> <p>(b) Describe the facility need dates and period(s) of time that it will use the facility, including necessary set-up and teardown times.</p> <p>(c) Identify any capital investment anticipated and construction that may be necessary to support the program.</p> <p>(d) Identify any potential scheduling conflicts and how it plans to manage the potential conflicts.</p> <p>(e) Describe the process used by the program and IPT leads to obtain the resources required for program execution (e.g., IT, tools, facilities, indirect funding, capital investment).</p>	<p>(a) The facility plan will be evaluated to ensure that all required facilities are identified and that the availability of critical facilities will be actively managed.</p> <p>(b) Facility use dates will be evaluated to ensure that they are compatible with the overall program schedule and reflect reasonable periods of use.</p> <p>(c) Proposed capital investments and facility construction requirements will be evaluated to ensure that they are consistent with program's schedule.</p> <p>(d) Risks associated with potential facility conflicts will be evaluated to determine associated program impacts.</p> <p>(e) The IPT resource acquisition process will be evaluated to ensure that IPT leads can obtain the resources required to deliver their products, and that they will be held accountable for delivering a product that conforms to requirements on schedule and on cost.</p>

Table 562-4.5—Small Business Participation

INSTRUCTIONS. The offeror shall—	EVALUATION CRITERIA
<p>(a) Describe its subcontracting approaches and goals for small businesses (including small, small disadvantaged, woman-owned and HUBZone business concerns) and historically black colleges or universities and minority institutions in performance of the contract (Note: this information should be provided in the subcontracting plan (see L&M-566(10)).</p>	<p>(a) The extent of participation of small businesses (including small, small disadvantaged, woman-owned and HUBZone business concerns) and historically black colleges or universities and minority institutions in performance of the contract will be evaluated for (i) the extent of commitment to use such firms (for example, enforceable commitments are to be weighted more heavily than non-enforceable ones); and (ii) the extent of participation of such firms in terms of the value of the total acquisition.</p>

L&M-563—PROPOSAL VOLUME 3 INSTRUCTIONS—PAST PERFORMANCE

(a) Offerors may submit current and past performance data occurring since March 1997 for themselves and for each proposed critical subcontractor (as determined by the offeror based on the scope of each subcontract and relevance to the program) and/or joint venture partner, that they consider relevant in demonstrating the ability to perform the proposed EMD/Production effort. The offerors' past performance information may include data on efforts performed by other divisions or corporate management only if such resources will be used or significantly influence the performance of the proposed effort. Contracts listed may include those with the Federal Government, state and local governments or their agencies, and commercial customers. Offerors that are newly formed entities without prior contracts or that do not possess relevant corporate past performance shall list contracts demonstrating the past performance of all key personnel. Volume III should address Past and Present Performance contract information only.

(b) The offeror shall include, and identify as such, at least three relevant success/turnaround contracts detailing problems encountered, recovery methodologies, and relative success obtained in alleviating these problems as part of the past performance submissions specified in paragraph (a).

(c) The offeror shall describe how all lessons learned were applied in such a way as to show benefit on the NPOESS EMD/Production contract.

(d) The offeror shall also submit, and identify as such, any relevant success/turnaround contracts for any subcontractor, teaming contractor, and/or joint venture partner that will be involved with the Interface Data Processing Segment (IDPS).

(e) To aid in evaluating relevancy of submitted contracts, the offeror shall describe how the work performed under the submitted contract compares in complexity to the proposed effort and how the relevancy of this work applies to the four mission capability performance subfactors plus cost. Offerors should note that some contracts may be more complex than the proposed effort, but could be less relevant than contracts with similar complexity to the proposed effort.

(f) The Volume 3 page count limit is three pages per contract identified, not to exceed 50 pages total. The total number of contracts shall not exceed eight contracts for the prime contractor. Questionnaire tracking records, contact data sheets, and client authorization letters are excluded from the page count limit.

(g) The Past Performance Volume shall contain the following sections:

(g)(1) Section 1—Offeror's Experience Summary Table. Offerors shall submit an experience summary as illustrated in Table 563-1 that depicts related experience by any part of the offeror's team. At a minimum, the table shall reference programs submitted in Volume 3. Work must be applicable to the SSPR contract, but could have been performed anytime. This section shall consist of one page using the table format shown below. The first column will denote whether the contract was accomplished by the prime contractor or by a sub-contractor. The second column will contain the name of the program being submitted for evaluation. The remaining columns will contain one of the following symbols:

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Table 563-1 Offeror's Experience Summary Table

Contractor	Program Element/ Proposal Requirement	System Performance	Segment Design	SEIT & Planning	Management and Organization	Cost
	Program					
	Contract 1					
	Contract 2					

Note: A filled in circle (●) if effort performed for a particular program element since March 1997. An open circle (○) if effort performed for a particular program element was earlier than March 1997. A blank, if offeror or sub-contractor has no experience in this area.

(g)(2) Section 2—Contract Descriptions. The offeror shall submit a description of contracts where it performed or is performing work similar to the work contemplated by the RFP. This section shall be organized by contract and shall include the information below for each contract discussed. It is permissible to combine one or more contracts together on one contract description to describe a program that uses multiple contracts for program execution under a common management structure.

- i. Contractor/Subcontractor places of performance, CAGE Codes and DUNS numbers
- ii. Government contracting activity, address, telephone, and fax number
- iii. Name, address, telephone, and fax numbers for:
 - a. Procuring Contracting Officers, Contract Administrators, Administrative Contracting Officers
 - b. Program, Project, or subcontract Managers—Procuring Agency
 - c. Technical representative—Procuring Agency
 - d. Other Cognizant Authorities (e.g., previous program managers, Contracting Officers, technical leads)
- iv. Contract Number
- v. Contract Type
- vi. Award date
- vii. Awarded price/cost—Final negotiated price/cost
- viii. Final, or projected final, price/cost -
 - a. Actual contract cost for the time period being evaluated, vs. cost of the program over whole life-cycle.
 - b. Actual contract cost by subcontract, vs. cost of entire project (when applicable)
- ix. Original delivery schedule—Final Negotiated (contractual) delivery schedule
- x. Final, or projected final, delivery schedule
- xi. If a fee or incentive type contract, specify the percentage of the fee for each period since March 1997. Provide rating and accompanying rationale.
- xii. Performance and Relevancy Narratives.
 - a. Offerors shall provide a specific narrative explanation of each contract listed describing the objectives achieved and detailing how the effort is similar to any requirements of this solicitation. (NOTE: Not all submitted contracts need address all requirements.) This discussion shall justify ratings given in the Relevancy Matrix for this contract (see Item xiii) by specifically addressing the relevancy criteria used for this evaluation. For contracts awarded prior to March 1997, limit the narrative discussion to work performed since that date. The narrative shall explain what design and test milestones were accomplished and/or products delivered since March 1997. If it is

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necessary to refer to earlier work at any point in the narrative, specifically identify it as such. Include a brief explanation and corrective action for any contracts that did not meet original cost, schedule, or technical performance requirements. List each time the delivery schedule was revised and provide an explanation of why the revision was necessary, including clarification of whether cost and or schedule revision(s) were Government directed. If final or projected costs are greater than award costs, quantify how much of the cost growth was not due to Government directed added scope, schedule slips, etc. Provide a copy and a summary of any cure notices or show cause notices received on each contract listed and a description of any corrective action taken. Indicate if any of the contracts listed were terminated and the type and reasons for the termination.

b. The offeror shall also include a narrative description of the relevance of the offeror's past performance to each of the Mission Capability Sub-factors identified in the relevancy matrix below, and shall point out how the contract met or achieved those critical areas. The narrative shall also include a description of how that past performance is relevant to the proposed NPOESS effort. The relevancy description shall focus on the similarities between the work performed on that contract and the work that contractor will perform on NPOESS, rather than a description of how that experience, expertise, and/or product will benefit the NPOESS program in general.

c. The offeror may describe any current quality awards, provided to the segment of the company that will support the NPOESS EMD/Production effort or certifications that indicate the offeror possesses a high-quality process for developing and producing the product or service required. Examples of such awards or certifications include: the Malcolm Baldrige Quality Award, other Government quality awards, and private sector awards or certifications. Identify the segment of the company received the award or certification, the award duration (i.e. yearly, quarterly, etc), when it was bestowed, and why they received this award. The offeror shall not include performance data from other divisions or "corporate management" entities not planned for direct involvement during the execution of the program.

d. For those efforts in which the offeror is aware of unfavorable and/or Marginal past performance, but in which the offeror has made significant progress not yet credited or formally documented, the offeror shall provide a narrative explaining "fixes" made to date or any other information regarding the unfavorable/Marginal assessment. The offeror shall include similar language for each critical subcontractor, teaming contractor, and/or joint venture partner for whom this is applicable. The narrative shall contain evidence of the offeror's ability to isolate the root causes of problems and shall describe programs or actions taken to resolve those causes. Problems not addressed by the offeror, but found by the Government during the evaluation of the information in this volume or independently obtained, will be assumed to still exist. Note: In the case of the Air Force's Contractor Performance Assessment Reporting System (CPARS), if the offeror has already provided input and the rationale/ circumstances have not changed, DO NOT repeat them here. The Government will use data provided by each offeror in this volume and data obtained from other sources in the development of performance risk assessments. Also, the Government will use the Past Performance Questionnaire (Annex B) to obtain past performance information. The Government reserves the right to change and/or supplement the questionnaire.

- xiii. Performance/Relevancy Matrix. Offerors shall also submit a performance/relevancy matrix (Table 563-2) for each contract with the information provided in the matrix corresponding to the narrative provided above. Each contract or subcontract on which relevant experience was gained in a Mission Capability sub-factor shall have a matrix filled in as shown below. The "P/S" column must have a P or S to denote that the

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experience was either as a prime contractor or as a sub-contractor. The "Relevancy" column shall denote relevance, using the relevancy ratings defined in Table 512-2, of the team's performance/relevancy in the contract with respect to the role that team will perform on the NPOESS effort. Fill each space in the columns, unless the contract reflects no performance/relevancy in that area, in which case the space is to be left blank.

Table 563-2—Performance/Relevancy Matrix		
	P/S	Relevancy "1" to "5"
CONTRACTOR:		
M. C. Subfactors	System Performance	
	Segment Design	
	SEIT & Planning	
	Management and Organization	
Cost		

Items (i) through (xi) of Section 2 and award fee percentages shall be addressed together under one table. The "Relevancy Matrix" is to be placed to the right of the first table and the "Performance and Relevancy Narratives" is to be placed below the matrix.

(g)(3) Section 3 - Subcontracts. Offerors shall provide a summary outline of how the effort required by the solicitation shall be assigned for performance within the contractor's corporate entity and among the proposed subcontractors. Offerors shall provide the information required above for any proposed subcontractor who shall perform a significant portion of the NPOESS EMD effort.

(g)(4) Section 4 - New Corporate Entities. New corporate entities may submit data on prior contracts involving its officers and employees. However, in addition to the other requirements in this section, the offeror shall discuss in detail the role performed by such persons in the prior contracts cited.

(g)(5) Section 5—Questionnaires. So that the Government may know from whom it should expect a completed Past and Present Performance Questionnaire, the offeror shall provide a listing of the entities from whom it has requested submission of a questionnaire (see sample tracking record in the NPOESS electronic library (<http://npoesslib.ipn.noaa.gov>)). This section will also include a photocopy of each such request. Questionnaires are to be sent by offeror to Government PM's, CO's, etc. (See Annex B for specific guidance regarding questionnaires).

(g)(6) Section 6—Award Fee Letters. For submitted contracts that have award fee, offerors shall submit Fee Determining Official award fee letters. Only submit letters from within the last five years. These letters shall not count toward the page count of this volume. If a letter(s) cannot be found, provide an explanation of efforts accomplished and a point of contact used to obtain other letters for the contract. If an award fee percentage is available where there is no letter available, submit the percentage.

(g)(7) Section 7—Terminations. The offeror shall provide a listing of all contracts that have been terminated since March 1997 with a summary of the termination rationale.

L&M-564—PROPOSAL VOLUME 4 INSTRUCTIONS—COST

Section 1—Introduction. This section shall include a Table of Contents, specifying, by page number, where each cost/price format and each piece of narrative data is located.

Section 2—Cost Information.

(2.1) Cost Formats.

(2.1.1) Overview. The cost/price volume proposal overview shall provide comprehensive narrative support for the cost/price proposal volume. The narrative shall explain the philosophy and methodology used in developing the estimates along with appropriate historical cost data illustrations, labor categories and hours.

(2.1.2) Estimating Methodology. The offeror shall—

(a) Provide a summary description of the standard estimating system or methods. The summary description shall cover separately each major cost element (e.g., Direct Material, Engineering Labor, Manufacturing Labor, Indirect Costs, Other Direct Costs, Overhead, G&A, etc.) unless a parametric model was used that does not provide this level of data. If a parametric model was used, provide a description of the model and the input parameters required. Also, identify any deviations from standard estimating procedures in preparing this proposal volume. Indicate whether the Government has approved the estimating system and /or parametric model and, if so, provide evidence of such approval.

(b) Provide a summary description of the proposed purchasing system or methods (e.g., how material requirements are determined, how sources are selected, when firm quotes are obtained, what provision is made to ensure quantity and other discounts). Also, identify any deviations from standard procedures employed in preparing this proposal. Indicate whether the Government has approved the purchasing system and if so, provide evidence of such approval.

(c) Indicate whether the Government has approved the accounting system, and, if so, provide evidence of such approval. Also, identify any deviations from standard procedures used in preparing this proposal.

(d) If estimated costs required to perform the proposed effort have been decreased due to a management-directed reduction, provide a summary of the reduction by major cost element summary and complete rationale for the reduction.

(2.2) Information Other than Cost or Pricing Data. The offeror shall—

(2.2.1) Provide then-year-funding requirements by Government fiscal year by appropriation, supported by quarterly projections of expenditures, commitments, and termination expenses.

(2.2.2) Provide a cost summary for the instant contract by major cost elements by CLINs for each FY. The offeror also shall include a cost summary sheet that totals all CLINs by Government FY (see sample at Table 564-7 (Cost Summary by CLIN by Fiscal Year)).

(2.2.3) Submit a CWBS summary schedule in the example shown at Table 564-6 (CWBS Summary Schedule). In the first column, "CWBS No.", insert the proposed CWBS to

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correspond to the elements of cost stated in the "Description" column. The CWBS number shall be the highest level CWBS that will permit a meaningful analysis (minimum level as described in Section L&M Annex A -- WBS). Provide summations to all higher CWBS levels. All hours shown in this table shall be consistent with hours stated in the cost summary. This documentation shall include but is not limited to un-priced BOE sheets and the proposed labor skill mix.

(2.2.4) Provide a Basis of Estimate containing relevant documentation for both prime offeror and subcontractor effort which shall explain the rationale for the proposed labor and other direct costs. The offeror shall describe in general terms how the hour estimate for each CWBS element was developed. The offeror shall specify the type of data used to develop the estimate, i.e., historical experience from XYZ program, why that program was relevant, engineering judgment, and cost estimating relationships (CERs, etc.). The offeror shall include an identification and brief description of each CWBS element. The offeror shall also include for each CWBS element a skill mix identification and position description for both prime and subcontractor effort. (See example for BOE Labor Skill Mix at Table 564-1 (BOE Labor Skill Mix)).

(2.2.4.1) For each computer software configuration item (CSCI) the offeror shall provide the number of new and pre-existing (designed for reuse & not designed for reuse) source lines of code (SLOC). Existing software intended for reuse should be explicitly identified as to the origin of the software, and whether it is commercial-off-the-shelf (COTS), a tailored development effort from a named program, or other origin.

The offeror shall provide the basis for each cost estimate in sufficient detail to permit Government verification. This should include the identification of cost estimating tools/methodologies and the corresponding input parameters.

Where parametric models are used as a primary or cross-check methodology, it is highly encouraged that all model input files be provided. Such parametric inputs and resulting model outputs must be clearly reconcilable with the offeror's proposal and enable the Government to recreate the estimate of software costs by CSCI.

Table 564-1—BOE Labor Skill Mix (Sample)		
Skill Mix	CWBS No.	Hours
Senior Engineer		
Lead Engineer		
Technician		
Total Hours		

(2.2.5) Submit a listing of the proposed probable subcontractors and inter-divisional transfers showing (a) the supplier; (b) description of effort; (c) type of contract; (d) price and hours proposed by each, and (e) price and hours included in prime's proposal to the Government (see example at Table 564-2 (Schedule of Probable Subcontractors)).

(2.2.6) Submit by CWBS element a listing of each major material item with an extended value exceeding \$100,000 showing nomenclature, part number, quantity required, unit price, and extended price. (See example at Table 564-3 (Schedule of Major Material Items)). Identify if item is part of prime contract or subcontract.

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Table 564-2 —Schedule of Probable Subcontractors (Sample)						
SUPPLIER	DESCRIPTION OF EFFORT	TYPE CONTRACT	SUBS HRS	SUBS PRICE	PROP HRS	PROP PRICE
TOTALS						

Table 564-3—Schedule Of Major Material Items (Sample)					
CWBS No.	NOMENCLATURE	PART NUMBER	QTY REQ'D	UNIT PRICE	TOTAL PRICE
	TOTALS				

(2.2.7) Provide a schedule of rates—

(a) Submit a schedule showing proposed direct and indirect rates by year. This schedule is to include (but separately identify) offeror, subcontractor(s) and inter-divisional transfer(s) rates. Note, if subcontractor cost proposals or inter-divisional rates are not available to the offeror, the offeror shall have this data sent directly to the Contracting Officer by the proposal deadline and reference this solicitation number (see example at Table 564-8 (Schedule of Rates)).

(b) Submit data to support all indirect rates used in calculating the proposed costs. Each offeror shall indicate whether the proposed indirect rates are those negotiated under a Forward Pricing Rate Agreement (FPRA). If the offeror has a current FPRA and has proposed rates other than the FPRA rates, the offeror shall identify the proposed rate versus the FPRA rate and state the estimated total cost difference. In addition, each offeror shall explain the method and basis of allocation for each rate.

(2.2.8) Submit an electronically encoded cost/price model in support of the proposed price. The cost/price model submitted must be consistent with the offeror's approved estimating system and must duplicate the logic and mathematical formula reflected in the paper copy of the proposal. Data file(s) shall be in MS Excel 2000 or MS Access 2000 format. Cost/price models submitted shall comply with this section. PDR LCCE model may be acceptable.

Section 3—Other Information. The offeror shall provide any other relevant cost assumptions and information, which form the basis of its proposal. These cost assumptions and information include, but are not limited to, the use of Government-furnished property, Government-furnished equipment, advance procurement costs, termination costs, inflation rate summary and explanation, special tooling, special test equipment. The offeror shall list any exception or qualification it has taken to the ground rules and assumptions provided in the solicitation, and provide complete rationale.

Section 4—Preliminary Design Review (PDR) Life-Cycle cost Estimate (LCCE). The offeror shall submit a PDR LCCE in offeror format that is consistent with the proposed technical baseline and submit a basis of estimate/methodologies used for the PDR LCCE. The

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Government has provided a list of the Government's ground rules and assumptions at L&M-540, which may be referenced here. The Government will provide a Summary WBS & Dictionary and may be referenced in the LCCE. The offeror shall provide a lower level WBS & Dictionary of all estimate accounts for entire scope of the NPOESS, including GFE, in accordance with estimating guidance. For any Government-furnished resources proposed by the offeror, the offeror shall describe the basis for assuming the availability of those resources, estimate the marginal cost of using such resources, and propose alternate sources to be used if the resources are not provided, and the cost of these alternate sources. The offeror shall provide justification if the estimate exceeds the CAIV targets (BY\$02) or if the proposed contract funding requirements exceed the cumulative budget profile (TY\$) shown in the figures below.

Table 564-4—Total Program CAIV Targets	
Cost Element (BY02\$M)	Target
O&S WBS	1,094
Acquisition (excludes O&S)	3,065

Includes all costs from the start of EMD to the end of the Mission Life, except as specifically excluded.

Excludes Government Program Office, EELV Standard Launch Services, EELV Mission Unique Integration, and Government O&S and Test & Evaluation personnel

Table 564-5—Cumulative Funding Profile								
	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09
Cumulative (TY\$M)	49	407	868	1,340	1,830	2,348	2,690	3,052

*Offeror's funding requirements shall be Substantially Compliant with this profile and any exceedence justified.

Includes all costs from the start of EMD to the end of the Mission Life, except as specifically excluded.

Excludes Government Program Office, EELV Standard Launch Services, EELV Mission Unique Integration, and Government O&S and Test & Evaluation personnel

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Table 564-6—CWBS Summary Schedule (Sample)						
CWBS NO.	DESCRIPTION	FYXX	FYXX	FYXX	etc.	TOTALS
X.X	Sensor Suite					
	Prime Hours					
	Sub 1 Hours					
	Sub n Hours					
	Inter-divisional Hours					
	Material - Prime					
	Material - Sub 1					
	Material - Sub n					
	Material - Inter-divisional					
	Total - Prime					
	Total - Sub 1					
	Total - Sub n					
	Total -Inter-divisional					
X.X	EDR Algorithms					
	Prime Hours					
	Sub 1 Hours					
	Sub n Hours					
	Inter-divisional Hours					
	Material - Prime					
	Material - Sub 1					
	Material - Sub n					
	Material - Inter-divisional					
	Total – Prime					
	Total – Sub 1					
	Total – Sub n					
	Total –Inter-divisional					
Etc.	Etc.					
TOTALS						

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Table 564-7—Cost Summary by CLIN by Fiscal Year (Sample)				
CLIN: XXXX				
COST ELEMENT	FY01	FY02	etc.	TOTAL
Prime Hours				
Sub 1 Hours				
Sub n Hours				
Inter-divisional Hours				
Total Hours				
Direct Labor – Prime				
Overhead – Prime				
Material – Prime				
Subcontractor 1				
Subcontractor n				
Inter-divisional				
Other Direct Costs – Prime				
Subtotal				
G&A				
Estimated Cost				
Facility Capital Cost of Money				
Award Fee				
Initial Target Profit				
Total Cost Plus Initial Target Profit/Award Fee				
Ceiling Price				
Material – Subcontractor 1 (non-add)				
Material – Subcontractor n (non-add)				
Material – Inter-divisional (non-add)				

Table 564-8—Schedule of Rates (Sample)					
ELEMENTS OF COST (RATE CATEGORIES)	PRIME 2001	PRIME 2002	SUB1 2001	SUB2 2001	IDT 2001
(all categories of labor such as:)					
LC-1 Program Manager					
LC-2 Program Engineer					
(all indirect rates and profit/fee)					
Material Overhead					
G&A					
Facilities Capital Cost of Money					
Award Fee					
Initial Target Profit					
Ceiling Profit					
Share Ratio – Over Target					
Share Ratio – Under Target					

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L&M-565—PROPOSAL VOLUME 5 INSTRUCTIONS—PROGRAM RISK MITIGATION ORAL PRESENTATION

- (a) This volume shall consist of slides or charts without facing page text. The only page limit is the offeror's practical ability to present and discuss all of them at its Program Risk Mitigation Oral Presentation.
- (b) The offeror is cautioned that this volume is due to the Government on the common cut-off date for submission of its complete proposal in L&M-560 and that no changes will be permitted before the Program Risk Mitigation Oral Presentation is conducted.
- (c) In the electronic version of this volume on CD-ROM, the offeror is encouraged to liberally link from its Mission Capability, Past Performance, and Cost Volumes to this volume wherever doing so will help substantiate or reinforce the assertions made in those volumes.
- (d) Where the offeror intends to provide demonstrations (including hands-on applications, computer simulations, or other modes of presentation other than charts) at the oral presentation, the information or capability to be demonstrated must be graphically summarized in one or more slides in this volume with a notation that the actual demonstration will be provided at the Program Risk Mitigation Oral Presentation. The charts must describe the nature of each demonstration and its inputs, outputs, and other variables sufficient to allow the Government to grasp the value of the demonstration without its ever being run.
- (e) Where the offeror intends to provide exhibits at the oral presentation, it shall include in this volume complete representations of 3-D exhibits and reproductions of posters and other printed exhibits.

L&M-566—PROPOSAL VOLUME 6 INSTRUCTIONS—MODEL CONTRACT

This volume will comprise the offeror's offer, complete in every respect and ready for acceptance by the Government. This volume is not subject to a page limitation. At a minimum, it shall include the items listed below:

(1) Model Contract Section A (SF-33), with signature of official authorized to bind the offeror (use contract number F04701-02-0500 everywhere a contract number is required here and elsewhere).

(2) Model Contract Sections B-J.

(3) Model Contract CDRL Exhibit A. A complete listing of data the offeror intends to provide or make available, using DD Form 1423.

(4) Model Contract Atch 1 Integrated Master Plan (identical to the IMP submitted in Volume 2).

(5) Model Contract Atch 2 NPOESS System Specification.

(6) Model Contract Atch 3 Contract Work Breakdown Structure.

(7) Model Contract Atch 4 Award Fee and Mission Success Fee Plan.

(8) Model Contract Atch 5 Government-Furnished Property (GFP). RFP Attachment 6 includes a listing of GFP the IPO intends to make available to the successful offeror. The offeror's proposal should include here a complete GFP listing needed for prime contract and subcontract performance, including need dates. If an offeror desires use of GFP other than that listed in RFP Atch 6, it shall provide written permission of the contracting officer or other Government representative possessing control of the property to permit its use (these permissions are provided in (16) below). NOTE: It is the offeror's responsibility to arrange for the use of any Government property needed in performance, except for that listed in RFP Atch 6. Note that L&M-564, Section 4, requires an assessment of the cost impacts of nonavailability of desired GFP.

(9) Model Contract Atch 6 Technical Data Restrictions. Pursuant to DFARS provision 252.227- 7013, list any data which the offeror proposes to deliver with other than unlimited rights, and define the limitations it proposes to apply (e.g., limited rights, Government Purpose License Rights, etc.). If the offeror notifies the Government that technical data will be delivered with other than unlimited rights, the notice shall be accompanied by the representation found in DFARS 252.227-7013(j), and shall be included herein. For all such instances, include—

(A) name of party claiming rights in data (the prime or subcontractor);

(B) type of items, components, processes or computer software;

(C) description of technical data or computer software; and

(D) type of Government rights restrictions.

(10) Model Contract Atch 7 Small, Small Disadvantaged, and Women-Owned Business Subcontracting Plan. If the offeror has an approved master subcontracting plan (FAR 19.704(b) and 52.219-9(f)) or an approved comprehensive subcontracting plan (DFARS 219.702), it shall submit an addendum with its plan covering any additional information required by this solicitation. The addendum will be incorporated into any resulting contract along with incorporation by reference of the master or comprehensive plan. Contractors selected to participate in the DoD test program authorized by section 834 of Public Law 101-189 and who have approved comprehensive subcontracting plans are not required to negotiate subcontracting plans on an individual basis. If the offeror has an approved comprehensive plan under the DoD test program, the offeror shall provide a copy of its approved comprehensive subcontract plan that includes an addendum covering any additional information required by this solicitation. The addendum will be incorporated into any resulting contract along with incorporation by reference of the master or comprehensive plan.

(11) Model Contract Atch 8 DoD Contract Security Classification Specification, DD Form 254, with the offeror's information included in the form.

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Additional documents should be included as appendices to Volume 6:

(12) Representations and Certifications (RFP Section K, completed by the offeror).

(13) Exceptions and Explanations. In every instance where the model contract differs from the RFP (except for providing expected standard fill-ins), provide a rationale for the difference. For each instance, also provide a statement expressing whether or not the difference is material. Also provide any other documentation or reports required by the RFP, or any other notices or explanations from the offeror needed to explain the proposed business arrangement.

(14) Location Information. Provide the name, street address, mailing address, Zip code, county, size of business (large or small), and labor surplus area designation of all facilities performing over \$10 million of effort on the contract. Indicate if facility is a division, affiliate, subcontractor or associate. If more than one place of performance is listed, indicate the percentage of work to be performed at each.

(15) Incentives, Commitments, and Warranties. If the offeror proposes any incentives, commitments, or warranties for the Government's benefit, these will be detailed here, including proposed Section H clauses needed for implementation.

(16) GFP Written Authorization.

(17) Instrument Subcontract arrangements. The offeror will provide a summary of the scope of work and contract terms negotiated with each instrument subcontractor, and a statement that negotiations with that subcontractor are or are not complete (and if not, a summary of actions and agreements still needed). The summary for any single instrument should not exceed two pages, except that up to four pages may be used for SESS. Note: the offeror should anticipate providing copies of fully negotiated subcontracts for the ATMS, CrIS, CMIS, GPSOS, OMPS, and VIIRS instruments before final proposal revision.

(18) Export Control. Inasmuch as performance of a contract resulting from this solicitation may involve technical data which is subject to the export licensing jurisdiction of the Department of State and its International Traffic in Arms Regulation (22 CFR 120-130 and the U. S. Munitions List), the offeror shall describe any foreign involvement in the proposal or proposed contract performance and how it has or will comply with U. S. export control laws and regulations along with any actions which may be required by the Government.

(19) Mentor-Protégé candidates.